FACTORY ACCEPT TB TACAN	ANCE TEST OF
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FACTORY ACCEPTANCE T	EST & ATP DOCUMENT
TB TACAN	
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Composition of FAT & PDI Team Below are the team involved in FAT & PDI of TACAN test bench.					
Name		Designation		<u>Signature</u>	

IL

FACTORY ACCEPT	ANCE TEST OF			
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PRE-APPROVAL PAGE	E (FAT PROTOCOL)			
Signing of this approval page of Protocol with the qualification approach described in this document. If any modification in the System, qualification approach becomes necessary and an addendum shall be prepared and approved.				
Name and Designation of Authorized Person	Signature	DATE		
Prepared by :				
Reviewed By :		[

	FACTORY ACCEP TB TACA	TANCE TEST OF N UNIT
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1.0.0 GENERAL

1.1.0 Objective

The TACAN 'I' Level Test bed is designed to check the following modules (Moog Fernau TACAN 2010)

S.No	OEM P/N	NOMENCLATURE	
1.	79-FAU28A	Local Status Indicator	
2.	284-FAU12A	System Interface	
3.	80-FAU34A	Monitor	
4.	274-FAU14A	Antenna Interface	
5.	284-FAU11A	Keyer Interface	
6.	28-FAU34A	High Power Amplifier	
7.	30-FAU6A	Transponder	
8.	28-FAU33B	Low Power Amplifier	
9.	3-FAU14B	Receiver	
10.	151-FAU8A	Transfer Unit	
11.	14-FAU47A	Mains Power Supply	
12.	1-FAU444C	Antenna Monitor And Control Unit	
13.	196-FAU13A	Distribution Unit	
14.		Modem	
15.	FAS816B	Fan Unit	
16.	236-FAU7A	Directional Coupler	
17.	FAS800	Pulse Filter	
18.	160-FAU1C	Detector	
19.	425-FAU1A	RF Splitter Assy	
20.		Hybrid/Isolator	
21.	FAS240	Combiner	
22.	125-003	Circuit Breakers	
23.	15-FAU30A	HPA Backplane	
24.	15-FAU26A	TXP/Mon Backplane	
25.	79-FAU31B	Remote Status Panel	

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The Modules (Unit Under Test/UUT) can be broadly classified into following

- (1) Intelligent Module
- (2) Slave/Component Module

1.1.1 INTELLIGENT MODULE

The TACAN is the Latest Generation design incorporating new features. Instead of employing a Central Controller, they have distributed node controllers.

Each Module is designed for a specific purpose (usually Analog Function). These modules have a Digital Node Microcontroller (μ c) which provides an intelligent link with the Main Controller. This offers lot of flexibility in the system Architecture, Reduced wiring, Ease in Installation and Calibration are the other advantages of this type of systems.

List of Intelligent Modules (1) Transponder (2) Low Power Amplifier (3) High Power Amplifier (4) System Interface (5) Antenna Interface (6) Distribution Unit (7) Keyer Interface (8) Transfer Unit (9) Local Status Indicator (10) Monitor (11) Receiver (12) Antenna Monitor and Control Unit

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1.1.2 SLAVE/COMPONENT MODULE

These Modules either have only one component (e.g. Circulator, splitter etc.) or slave device like Fan, Breakers etc.

List of Slave/Component Module

Mains Power Supply
 Modem
 Fan Unit
 Directional Coupler
 Pulse Filter
 Detector
 RF Splitter Assy
 Hybrid/Isolator
 Combiner
 Circuit Breakers
 HPA Backplane
 TXP/MON Backplane
 Remote Status Panel

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1.2.0 Scope

A factory acceptance test – User to visit the OEM's facility to test out the TB_TACAN equipment and make sure it works as expected and to meet the Requirement as mentioned in Approval Documents. This will significantly reduce the time and expense of resolving those issues and helps to ensure that new processing lines are up and ready to go on time.

- Testing according to approved test protocols.
- To identify any issues before the equipment is shipped to the user's facility.
- This protocol will verify the TB equipment and relevant datasheets at the Factory
- Reporting of finding and deficiencies
- FAT Checklist from user to manufacturer

1.3.0 Contact Details

Firm Name	NEOMETRIX ENGINEERING PVT LTD
Address	#26, 4 TH STREET,LAKSHMI NAGAR,VELACHERY,CHENNAI-42
Contact person	AAMIR ALAM/SARFUDDIN
Phone no.	044-45538454
Fax no.	044-45538454
Email	aamir@neometrixgroup.com

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Safety Instructions

Electricity is widely recognized as a serious workplace hazard, exposing employees to electrical shock, electrocution, burns, fires, and explosions. Employees have been killed or injured in fires and explosions caused by electricity.

Additional considerations in relation to the electrical hazards of arc flash and arc blast, is that extremely high energy arcs can damage equipment, causing fragmented metal to fly in all directions. In atmospheres that contain explosive gases or vapors, or combustible dusts, even low-energy arcs can cause violent explosions. In these cases the electric arc may be the ignition source for a much bigger explosion and fire.

Due to the potential electrical hazards associated with the use of electrical test instruments, only qualified persons are permitted to perform tasks such as testing, troubleshooting, and voltage measuring when working within the Limited Approach Boundary of exposed energized electrical conductors or circuit parts operating at 50 volts or more, or where any other electrical hazard may exist.

Improper use of electrical test instruments can result in shock or electrocution, as well as creating an arc flash incident. This paper addresses these issues, along with the requirements for selecting and utilizing the test instruments to verify the presence of voltage.

Safety and warning

The following safety precautions should be observed before using this product and any associated instrumentation. Although some instruments and accessories would normally be used with nonhazardous voltages, there are situations where hazardous conditions may be present.

This product is intended for use by qualified personnel who recognize shock hazards and are familiar with the safety precautions required to avoid possible injury. Read and follow all installation, operation, and maintenance information carefully before using the product.

Refer to the user documentation for complete product specifications. If the product is used in a manner not specified, the protection provided by the product warranty may be impaired. The types of product users are: Responsible body is the individual or group responsible for the use and maintenance of equipment, for ensuring that the equipment is operated within its specifications and operating limits, and for ensuring that operators are adequately trained.

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Operators use the product for its intended function procedures and proper use of the instrument. They contact with hazardous live circuits.	n. They must be must be proted	e trained in electrical safety cted from electric shock and
Maintenance personnel perform routine procedures for example, setting the line voltage or replacing con are described in the user documentation. The pro- perform them. Otherwise, they should be performed o	on the product t sumable materia cedures explicitl only by service p	to keep it operating properly, als. Maintenance procedures ly state if the operator may ersonnel.
Service personnel are trained to work on live circ products. Only properly trained service personn procedures.	cuits, perform s nel may perfor	afe installations, and repair m installation and service
Most measurement, control, and data I/O signals and directly connected to mains voltage or to voltage Measurement Category II connections require prote associated with local AC mains connections.	e Measurement sources with h ection for high t	Category I and must not be high transient over-voltages. transient over-voltages often
Assume all measurement, control, and data I/O co sources unless otherwise marked or described in caution when a shock hazard is present. Lethal volta or test fixtures.	onnections are f the user docun ge may be pres	for connection to Category I nentation. Exercise extreme ent on cable connector jacks
The American National Standards Institute (ANSI) sta levels greater than 30 V RMS, 42.4 V peak, or 60 V expect that hazardous voltage is present in any unkno	ates that a shocl DC are present. own circuit befor	k hazard exists when voltage . A good safety practice is to re measuring.

Operators of this product must be protected from electric shock at all times. The responsible body must ensure that operators are prevented access and/or insulated from every connection point. In some cases, connections must be exposed to potential human contact. Product operators in these circumstances must be trained to protect themselves from the risk of electric shock.

Before operating an instrument, ensure that the line cord is connected to a properly-grounded power receptacle. Inspect the connecting cables, test leads, and jumpers for possible wear, cracks, or breaks before each use. When installing equipment where access to the main power cord is restricted, such as rack mounting, a separate main input power disconnect device must be provided in close proximity to the equipment and within easy reach of the operator. For maximum safety, do not touch the product, test cables, or any other instruments while power is applied to the circuit under test. ALWAYS remove power from the entire test system and discharge any

: conn interr provid	REV00 ecting or disconnecting c nal changes, such as in e a current path to the co	cables or jumpers, inst stalling or removing	alling or removing switching
: conn interr provid	ecting or disconnecting c nal changes, such as in e a current path to the co	ables or jumpers, inst stalling or removing	alling or removing switching
	,	ommon side of the cir	cuit under test or power line
asurer voltaç its spe	nents with dry hands whi ge being measured. The cifications and operating	le standing on a dry, i e instrument and acc g instructions, or the s	nsulated surface capable o cessories must be used ir afety of the equipment may
	<u>∧</u> wa	RNING	
AFET	Y INFORMATION"	BEFORE USING,	INSTALLING OR
NCE	THE INSTRUMENT.)
i	asuren voltag its spe	asurements with dry hands whi voltage being measured. The its specifications and operating AFETY INFORMATION " AFETY INFORMATION " ACE THE INSTRUMENT.	asurements with dry hands while standing on a dry, i voltage being measured. The instrument and acc its specifications and operating instructions, or the s SAFETY INFORMATION" BEFORE USING, ACE THE INSTRUMENT.

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Protection for Electrostatic Discharge Sensitive (ESDS) devices:

(A) Work area:

1. It is essential to handle ESDS devices at static-safe workstations. This will prevent yield loss (through catastrophic damage) or, worse, potential reliability failures in the field (through latent damage).

2. Where it is impractical or impossible to use antistatic wrist-straps or remove items that are composed of isolative materials at a static-safe workstation, use an air ionizer designed to neutralize electrostatic charges or apply topical antis tats to control generation and accumulation of static charges.

3. When an air ionizer is utilized, it is vital that maintenance procedures and schedules are adhered to in order to ensure that ions generated by the ionizer are sufficiently balanced.

4. Avoid bringing sources of static electricity within 1 meter of a static-safe work bench.

5. Where it is necessary to use air-guns, use special models that do not generate static charges in the air stream

(B) Personnel:

1. Any accumulated charge on the body of the human operator should be discharged first before opening the protective container with ESDS devices inside. The discharge can be accomplished by putting a hand on a grounded surface or, ideally, by wearing a grounded antistatic wrist-strap.

2. The use of an antistatic smock for each worker is highly recommended.

3. Education and training on ESD preventive measures is invaluable.

4. A regular audit is also helpful in supporting an ESD program.

WARNING

READ "SAFETY INFORMATION" BEFORE USING, INSTALLING OR MAINTENANCE THE INSTRUMENT.

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2.0.0 AUTOMATED TEST PROCEDURE AND REPORT TABLES

- 2.1.0 TEST PROCEDURES
- 2.1.1 DETECTOR

About :



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Connection:
Connect the connector J1 connector to RF IN of the detector and J2 to the DC OUT
Of the detector. Switch ON power supply of the ATE, go to module test page and select the module to be test (Detector).
Functional Block Diagram :
RF IN 1W \longrightarrow $\frac{\text{DETECTOR}}{(\text{UUT})} \rightarrow \frac{\text{DC}}{\text{OUT}} \rightarrow \frac{\text{ADC}}{\text{OUT}} \rightarrow \frac{\text{PC}}{\text{PC}}$
UNIT UNDER TEST (UUT)
TACAN TEST BENCH

cume	nt No. :	T-PED-ATP-A2 REV00	2046-	Page No	:	Page 16 of 71
	<u> </u>		,	****NEOMI	Balations Company	
	\$					
		DETECTOR FUN	CTIONAL TEST I	REPORT		_
	OPERATOR NAME	1	MODULE CAT	1		1
	JON NO.	1	TEST DATE.	14/06/2021]]
			OEM PART NO	100 EAU10] 1
	SERIAL NO.	1	CEMPART NO.	100-FAUTO	,]
	F1 : 0.96GHz 5.0dBm	z, F2 : 1.0GHz, F3 : 1.	.025GHz, L1 : -5.0	dBm, L2:0.0)dBm, L3 :	
	INPUT	ACCEPTANCE	RF OUT VOLTAG	E (Measured)	RESULT]
	E11.1	0002.0278	0122	•	BACC	
	FILI E1L2	0192-0270	0133	•	PASS	
	E11.2	0255 1085	0512	•	DAGG	
	E2L1	0103-0310	0154		PASS	
	F2L2	0206-0618	0324	·	PASS	
	F2L3	0386-1158	0587		PASS	
	F3L1	0102-0306	0166	1	PASS	
	F3L2	0204-0612	0340		PASS	
	F3L3	0386-1158	0623		PASS	
	Test Witness Te	am :-				1
	Name	Designat	tion Si	gnature	Remark	
						-
						_

	FACTORY ACCEPTA TB TACAN	NCE TEST OF	
System Name :	TB_TACAN		
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2.1.2 TRANSFER UN	IT:		
About :			
A Directional coupler is a devic measurements include incident p	e that samples a small amount of Microw ower, reflected power, VSWR values, etc	ave power for measurement	purposes. The power
Connection:			
Connect the connecto	r J1 connector to RF IN	of the detector and J	J2 to the DC OUT
Of the detector. Switch (module to be test (Detection)	ON power supply of the ATE, ctor).	go to module test pag	ge and select the





	FACTORY ACCE TB TAC	PTANCE TEST AN UNIT	OF
System Name :	TB_TACAN		
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Test Report :			
		<i>The Complete Engineerin</i>	ETRIX 19 Solutions Company
TRAN	SFER UNIT PANEL FUN	CTIONAL TEST I	REPORT
OPERATOR NAI	ME 1	MODULE CAT	. 1
JOB NO.	1	TEST DATE:	15-06-21
SERIAL NO.	2		
	FUNCTIONAL	TEST	
L1: -80 dBm, L2	:-60dBm		
SL.NO	PARAMETER	MEASURED O/P	RESULT
1	SELF	PASS/FAIL	PASS
2	CAN COMMUNICATION TEST	PASS/FAIL	PASS
3	RECEIVER RELAY 1 TEST	PASS/FAIL	PASS
4	RECEIVER RELAY 2 TEST	PASS/FAIL	PASS
5	TX FORWARD POWER TESt	PASS/FAIL	PASS
6	TX REVERSE POWER TEST	PASS/FAIL	PASS
Test Witness	Team:-		
Name	Designation	Signature	Remark
	I	I	

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			TE	B TAG	CAN UNI	т		
System Na	me :	TB_T	ACAN					
Document	No. :	T-PED REV0	D-ATP-A204 0	6-	Ра	ige No	: Pa	ge 22 of 71
	4					†††NEOMI The Complete Engineering	CTRIX Solutions Company	
	1	PULSE FI	LTER AMPLI	FIER I	FUNCTION.	AL TEST REPO	RT	-
	OPERATOR N	AME. Ami	r		MODULE CAT.	cat-a		
	JON NO.	01			TEST DATE.	22/04/2021		
	SERIAL NO.	121	1215		OEM PART NO	. FAS800		
	SLNO	PAR	AMETERS	ACC	RANGE	OUTPUT POWER (mV)	RESULT	
	1	100MH:	z STOP FREQ			0000	PASS	
	2	200MH:	z STOP FREQ			0000	PASS	
	3	300MH:	z STOP FREQ			0000	PASS	
	4	960MH	z PASS FREQ			0635	PASS	
	5	1000MH	IZ PASS FREQ			0669	PASS	
	6	1096MH	Z PASS FREQ			0669	PASS	
	7	1900MH	z STOP FREQ			0000	PASS	
	8	2000MH	z STOP FREQ			0000	PASS	
	9	2200MH	Z STOP FREQ			0000	PASS	
	Test Witne	ss Team :-	Desim			Cine a funda	Demost	1
	N	ame	Design	auon		aignature	Remark	





	F	ACTORY ACCEPT TB TACAI	ANCE TEST OF	
System Name	: TB_TA	CAN		
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			titine Complete Ex	DMETRIX gineering Bolutions Company
		SPLITTER FUNCTI	ONAL TEST REPORT	
	OPERATOR NAME.	Amir	MODULE CAT.	A
	JON NO.	spliter	TEST DATE. 22/04	/2021
	SERIAL NO.	s12	OEM PART NO. 425-F	AU1A
	F1 : 0.96GH	z L1 : 126mV		
	INPUT	ACCEPTANCE RANGE (dBm)	MEASURED VALUE (dB	m) RESULT
	OUTPUT1	0028-0042	0039	PASS
	OUTPUT2	0028-0043	0040	PASS
	OUTPUT3	0032-0048	0044	PASS
	OUTPUT4	0032-0048	0038	PASS
	OUTPUT5	0024-0037	0033	PASS
	OUTPUT6	0000-0000	0000	PASS
	оитрите F1 : 0.96GH	2 L2 : 228mV	0000	PASS
	оитрите F1 : 0.96GH	COOD-0000 Z L2:228mV	0000 MEASURED VALUE (dB	PASS m) RESULT
	OUTPUT6 F1 : 0.96GH	0000-0000 z L2 : 228mV ACCEPTANCE RANGE (dBm) 0144-0216	0000 MEASURED VALUE (dB 0187	m) RESULT PASS
	OUTPUT6 F1:0.96GH INPUT OUTPUT1 OUTPUT2	0000-0000 z L2:228mV ACCEPTANCE RANGE (dBm) 0144-0216 0144-0217	0000 MEASURED VALUE (dB 0187 0188	PASS m) RESULT PASS PASS
	OUTPUT6 F1 : 0.96GH INPUT OUTPUT1 OUTPUT2 OUTPUT3	0000-0000 z L2:228mV ACCEPTANCE RANGE (dBm) 0144-0216 0144-0217 0162-0243	0000 MEASURED VALUE (dB 0187 0188 0198	M) RESULT PASS PASS PASS PASS
	OUTPUT6 F1 : 0.96GH INPUT OUTPUT1 OUTPUT2 OUTPUT3 OUTPUT4	0000-0000 z L2:228mV ACCEPTANCE RANGE (dBm) 0144-0216 0144-0217 0162-0243 0165-0248	0000 MEASURED VALUE (dB 0187 0188 0198 0179	PASS m) RESULT PASS PASS PASS PASS
	OUTPUT8 F1 : 0.96GH INPUT OUTPUT1 OUTPUT2 OUTPUT3 OUTPUT4 OUTPUT5	0000-0000 z L2:228mV ACCEPTANCE RANGE (dBm) 0144-0216 0144-0217 0162-0243 0165-0248 0133-0217	0000 MEASURED VALUE (dB 0187 0188 0198 0179 0196	PASS m) RESULT PASS PASS PASS PASS PASS

FACTORY ACCEPTANCE TEST OF **TB TACAN UNIT** System Name TB_TACAN : T-PED-ATP-A2046-**Document No.** Page No Page 26 of 71 : : **REV00** F2:1.0GHz L1:126mV INPUT ACCEPTANCE RANGE MEASURED VALUE (dBm) RESULT (dBm) OUTPUT1 0041 PASS 0028-0043 OUTPUT2 0030-0045 0041 PASS OUTPUT3 0032-0048 0046 PASS Tested on TACAN TEST BENCH Model No: Designed, developed and manufactured by M/s Neometrix Engineering Pvt Ltd, E-148, Sector-63, NOIDA, UP. India 201301





		FACTO	RY AC TB T	CEPT/ ACAN	ANCE T UNIT	ES	ST OF		
System Name	: TB_1	FACAN							
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	x	COMBINE	R FUNCT	IONAL	tti The Co	NE mplete POR	EOME?	TRIX alions Company	
									_
OPERAT	OR NAME. 1			MODUL	E CAT.	1			
JON NO.	1			TEST D	ATE.	16/	06/2021		7
SERIAL	10. 1				ART NO.	FΔ	\$240		\neg
F1 : 0 5.0dBr).96GHz, F2	: 1.0GHz,	F3 : 1.025	GHz, L	1 : -5.0dBi	m, l	L2 : 0.0dE	3m, L3 :	
INPUT (mW)	1 INPUT2 (mW)	INPUT3 (mW)	INPUT4 (mW)	INPUT5 (mW)	ACCEPTE E RANGE	NC E	OUTPUT (mV)	RESULT	ſ
F1 L1	F1 L1	F1 L1	F1 L1	F1 L1	0013-00	39	0019	PASS	
F1 L2	F1 L2	F1 L2	F1 L2	F1 L2	0043-01	30	0087	PASS	
F1 L3	F1 L3	F1 L3	F1 L3	F1 L3	0090-02	70	0156	PASS	
F2 L1	F2 L1	F2 L1	F2 L1	F2 L1	0012-003	36	0014	PASS	
F2 L2	F2 L2	F2 L2	F2 L2	F2 L2	0038-01	15	0043	PASS	
F2 L3	F2 L3	F2 L3	F2 L3	F2 L3	0077-02	32	0131	PASS	
F3 L1	F3 L1	F3L1	F3 L1	F3L1	0004-00	13	0004	PASS	
F3 L2	F3 L2	F312	F3 L2	F312	0053-01	80	0029	PASS	
Test W	tness Team :-		1020	1020	00000		0000	1100	
	Name	0	esignation)		Signa	ature	•	Remark	

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em Name	: тв	_TACAN					
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	4			tt The G	[†] NEOME ⁷ Complete Engineering Sol	TRIX Inflows Company	
OPERAT	MA	IN POWER SU	PPLY FUNCTIO	ONAL TES	ST REPORT]	
JON NO.		12	TEST	DATE.	30/04/2021		
SERIAL	NO.	12	OEM	0EM PART NO 274 EAU14A			
Р	SU 1						
S.NO	LOAD	MEASURED VOLTAGE	MEASURED CURRENT(A)	ACCEPTA	ANCE RANGE (A)	RESULT	
S.NO	25%	MEASURED VOLTAGE (VDC) 28.050	MEASURED CURRENT(A) 014.66	ACCEPT/	ANCE RANGE (A)	PASS	
S.NO	LOAD 25% 50%	MEASURED VOLTAGE (VDC) 28.050 28.050	MEASURED CURRENT(A) 014.86 022.00	ACCEPT/ 012.0 018.0	ANCE RANGE (A) 00-018.00 00-027.00	PASS PASS	
S.NO 1 2 3	LOAD 25% 50% 75%	MEASURED VOLTAGE (VDC) 28.050 28.050 28.050	MEASURED CURRENT(A) 014.66 022.00 029.33	ACCEPTA 012.0 018.0 024.0	ANCE RANGE (A) 00-018.00 00-027.00 00-036.00	PASS PASS PASS	
\$.NO 1 2 3 4	LOAD 25% 50% 75% 100%	MEASURED VOLTAGE (VDC) 28.050 28.050 28.050 28.050 28.050	MEASURED CURRENT(A) 014.66 022.00 029.33 036.66	ACCEPTA 012.0 018.0 024.0 030.0	ANCE RANGE (A) 00-018.00 00-027.00 00-036.00 00-045.00	PASS PASS PASS PASS PASS	
S.NO 1 2 3 4 P S.NO	LOAD 25% 50% 75% 100% SU 2 LOAD	MEASURED VOLTAGE (VDC) 28.050 28.050 28.050 28.050 28.050 MEASURED VOLTAGE	MEASURED CURRENT(A) 014.66 022.00 029.33 036.66 MEASURED CURRENT(A)	ACCEPTA 012.0 018.0 024.0 030.0 ACCEPTA	ANCE RANGE (A) 00-018.00 00-027.00 00-036.00 00-045.00	RESULT PASS PASS PASS PASS	
S.NO 1 2 3 4 P S.NO 1	LOAD 25% 50% 75% 100% SU 2 LOAD 25%	MEASURED VOLTAGE (VDC) 28.050 28.050 28.050 28.050 MEASURED VOLTAGE (VDC) 28.050	MEASURED CURRENT(A) 014.66 022.00 029.33 036.66 MEASURED CURRENT(A) 014.66	ACCEPTA 012.0 018.0 024.0 030.0 ACCEPTA 012.0	ANCE RANGE (A) 00-018.00 00-027.00 00-036.00 00-045.00 ANCE RANGE (A) 00-018.00	RESULT PASS PASS PASS RESULT	
S.NO 1 2 3 4 4 P S.NO 1 2	LOAD 25% 50% 75% 100% SU 2 LOAD 25% 50%	MEASURED VOLTAGE (VDC) 28.050 28.050 28.050 28.050 28.050 MEASURED VOLTAGE (VDC) 28.050 28.050	MEASURED CURRENT(A) 014.66 022.00 029.33 036.66 MEASURED CURRENT(A) 014.66 022.00	ACCEPTA 012.0 018.0 024.0 030.0 ACCEPTA 012.0 018.0	ANCE RANGE (A) 00-018.00 00-027.00 00-036.00 00-045.00 ANCE RANGE (A) 00-018.00 00-018.00	RESULT PASS PASS PASS PASS RESULT PASS	
S.NO 1 2 3 4 P S.NO 1 2 3	LOAD 25% 50% 75% 100% SU 2 LOAD 25% 50% 75%	MEASURED VOLTAGE (VDC) 28.050 28.050 28.050 28.050 28.050 28.050 28.050 28.050 28.050 28.050	MEASURED CURRENT(A) 014.66 022.00 029.33 036.66 MEASURED CURRENT(A) 014.66 022.00 029.33	ACCEPTA 012.0 018.0 024.0 030.0 ACCEPTA 012.0 012.0 018.0 024.0	ANCE RANGE (A) 00-018.00 00-027.00 00-036.00 00-045.00 ANCE RANGE (A) 00-018.00 00-018.00 00-027.00 00-036.00	RESULT PASS PASS PASS PASS RESULT PASS PASS	

Jument No. TPED-ATP-A2046- REV00 Page No : Page 33 of 71	stem Name	: IB					
SNO LOAD MEASURED VOLTAGE MEASURED CURRENT(A) ACCEPTANCE RANGE RESULT (A) 1 25% 28.050 012.00-018.00 PASS 2 50% 28.050 018.00-027.00 PASS 3 75% 28.050 024.00-038.00 PASS 4 100% 28.050 030.00-045.00 PASS Tested on TACAN TEST BENCH Model No:	cument No.	: T-F RE	PED-ATP-A V00	2046-	Page No	: P	age 33 of 71
S.NOLOADMEASURED VOLTAGE (VDC)MEASURED CURRENT(A)ACCEPTANCE RANGE (A)RESULT125%28.050012.00-018.00PASS250%28.050018.00-027.00PASS375%28.050024.00-038.00PASS4100%28.050030.00-045.00PASS	I	SU 3					
1 25% 28.050 012.00-018.00 PASS PASS	S.NC	LOAD	MEASURED VOLTAGE (VDC)	MEASURED CURRENT(A)	ACCEPTANCE RANGE (A)	RESULT	
250%28.050018.00-027.00PASS375%28.050024.00-036.00PASS4100%28.050030.00-045.00PASS	1	25%	28.050		012.00-018.00	PASS	
3 75% 28.050 024.00-036.00 PASS 4 100% 28.050 030.00-045.00 PASS Tested on TACAN TEST BENCH Model No: Designed, developed and manufactured by M/s Neometrix Engineering Pvt Ltd, E-148, Sector-63, NOIDA, UP. India 201301	2	50%	28.050		018.00-027.00	PASS	
4 100% 28.050 030.00-045.00 PASS Tested on TACAN TEST BENCH Model No:	3	75%	28.050		024.00-036.00	PASS	
Tested on TACAN TEST BENCH Model No: Designed, developed and manufactured by M/s Neometrix Engineering Pvt Ltd, E-148, Sector-63, NOIDA, UP. India 201301	4	100%	28.050		030.00-045.00	PASS	
	Teste	i on TACAN M/s Neom	TEST BENCH M etrix Engineering	iodel No: Do Pvt Ltd, E-148, Sect	esigned, developed and mann or-63, NOIDA, UP. India 20	factured by 1301	

	FACTORY ACCEP TB TACA	FANCE TEST OF N UNIT	=
System Name	: TB_TACAN		
Document No.	T-PED-ATP-A2046- REV00	Page No	: Page 34 of 71

2.1.7 FAN MODULE

FAN module is used in TACAN system to maintain the temperature of the panel uniform by forced air circulation





System N	Name :	TB_TACA	N B A2046				
Docume	nt No. :	REV00	F-A2040-	Page	No	: Page 36	6 of 71
		EANID	NT FUNCTIO	DNAL TEST P		IETRIX	
		TANG	ui reivein	JUAL ILSI M			
	OPERATOR NAME.	amir		MODULE CAT.	cat1		
	JON NO.	fan		TEST DATE.	21/04/202	21	
	SERIAL NO.	f1		OEM PART NO.	FAS816B		
	VOLTAGE	+11.999		CURRENT	+2.709		
	SLNO	RPM	ACCEPT	ENCE RANGE (R	PM)	STATUS	
	1	1660		1600 - 2100		PASS	
	2	1679		1600 - 2100		PASS	
	3	0		1600 - 2100		FAIL	
	4	0		1600 - 2100		FAIL	
	5	0		1600 - 2100		FAIL	
	6	0		1600 - 2100		FAIL	
	Test Witness Te	am :-					
	Name		Designation	Sig	inature	Remark	



TB TACAN UNIT									
System Nam	ie :	: TB_1	ACAN			1			
Document N	o. :	T-PE REV	D-ATP 00	-A2046-		Page	No	:	Page 38 of 71
	1					**	NEO	METDIN	
	The Complete Engineering Bolutions Company								
	-	•							
-	HPA BACKPLANE FUNCTIONAL TEST REPORT								
	OPERATOR NAME. amir MODULE CAT. tacan								
	JON NO. hpa12				TEST D	ATE.	20/04/2	2021	
	SERIAL NO	0. hpa123			OEM PART NO. 15-F		15-FAU	J30A	
5	SLNO	PARAME	TERS	ACCEPTENCE RANGE				RESULT	
	1	HPA CONNE TES	ECTOR-1	CONNECTOR 1 CONTI		NTINUITY TEST PASS		PASS	
	2	HPA CONNE TES	ECTOR-2	2 CONNECTOR 2 CON		CONTINUITY TEST		PASS	
	3	HPA CONNE TES	ECTOR-3	CONNECTOR 3 CO		CONTINUITY TEST		PASS	
	4	HPA CONNE TES	ECTOR-4	CONNECTOR 4 CONTINUITY TEST			TEST	PASS	
_		HPA CONNECTOR-5 TEST		CONNECTOR 5 CONTINUITY TEST					
-	5	HPA CONNE TES	ECTOR-5	CONNECT	OR 5 COI		IEST	PASS	
-	5	HPA CONNE TES HPA CONNE TES	ECTOR-5 T ECTOR-6 T		OR 5 CO1	ד אדוטאודא ד אדוטאודא	TEST	PASS	
	5 6 Test Witr	HPA CONNE TES HPA CONNE TES ness Team :-	ECTOR-5 T ECTOR-6 T	CONNECT	OR 5 COI	ז אדוטאודא ז אדוטאודע	TEST	PASS	
	5 6 Test Witr	HPA CONNE TES HPA CONNE TES ness Team :- Name	ECTOR-5 T ECTOR-6 T	CONNECT	OR 5 COP	VTINUITY 1 VTINUITY 1 Sign:	TEST TEST	PASS PASS Rema	ırk
	5 6 Test Witr	HPA CONNE TES HPA CONNE TES ness Team :- Name	ECTOR-5 T ECTOR-6 T	CONNECT CONNECT	OR 5 COI	NTINUITY 1 NTINUITY 1 Signa	TEST TEST	PASS PASS Rema	ırk



	FACTORY ACCEP TB TACA	'TANCE TEST OF AN UNIT	-
System Name	: TB_TACAN		
Document No.	: T-PED-ATP-A2046- REV00	Page No	: Page 40 of 71

Connection with ATE: As shown in above photograph, connect the multi-pin male connector of local status indicator with J3 connector of the ATE provided. Tight the connector carefully and check for any loose connection.

About LSI: This is an intelligent module , this shows the status of TACAN unit status locally. This is identical of remote status panel without the Ethernet interface (additional component). This has CAN bus interface and a serial port which is connected to a modem.

tom No	mo	. тр	TACAN	TB TACAI			
ument	No.	. 16 . T-P : RF	ED-ATP-A	2046-	Page	e No	: Page 41 of 71
	5			Th	*** NEON e Cemplete Enginee	TETRIX	
	LOC	CAL STATU	S INDICATO	R FUNCTION T	EST REP	ORT	
OPERATO	R NAME.	amir		MODULE CAT.	tacan		
JON NO.		lsi		TEST DATE.	21/04/20	21	
SERIAL NO).	lsi1		OEM PART NO.	79-FAU2	8A	
VOLTAGE		+27.998		CURRENT	+0.081		
SLNO	PAR	AMETERS	ACCI	EPTENCE RANGE	E	RESULT	
1	LOC	CAL TEST	CHECK LOC	OCAL COMMAND STATUS		PASS	
2	OVER	RRIDE TEST	CHECK O	OVERRIDE COMMAND PASS			
3	INH	IBIT TEST	CHECK INH	IBIT COMMAND S	TATUS	PASS	
4	IDEN	T OFF TEST	CHECK IDE	NT COMMAND S	TATUS	PASS	
5	LAI	MP TEST	CHECK L	AMP HEALTH ST	ATUS	PASS	
Test Wit	ness Tea	am :-					
	Name		Designation	Sig	nature	Remark	

FACTORY ACCEPTANCE TEST OF **TB TACAN UNIT** System Name **TB_TACAN** : T-PED-ATP-A2046-**Document No.** Page No : : Page 42 of 71 **REV00** 2.1.10 SYSTEM INTERFACE SYSTEM I/FACE (X) CONNECT LOOM J4 OF ATE

About:

This is an intelligent module, this forms the crucial interface of the TACAN system. It has CAN,USB,SERIAL & ETHERNET INTERFACE. This module is responsible for initializing the system at start up.

Connection:

Connect the multi-pin connector of the module with ATE as shown in the fig above. Check the connection is proper and no any lose cables in the connector.

	FACTORY ACCEPTANCE TEST OF							
IB IACAN UNII								
T-PED-ATP-A2046-								
Document No.	: REV0	0		Page	NO	: •	Page 43 of 71	
•								
	5			ttt The Co	NEON npiete Engineer	TETRIX		
SYSTEM INTERFACE FUNCTIONAL TEST REPORT								
OPERATO	OR NAME. Amir		MO	DULE CAT.	CAT-a			
JON NO.	s12		TES	ST DATE.	27/04/202	21]	
SERIAL N	0. 123		OEM		PART NO. 274-FAU14/			
VOLTAGE	+27.9	997	CURR		+0.100			
SLNO	PARAMETE	RS STANDARD VA	STANDARD VALUE		ACCEPTENCE RANGE			
1	INTERNAL BIT TEST FOR CA BUS	CAN BUS TX AN CHECK WITH CONTROLLER	ID RX	INTERNAL BITE TEST		PASS		
2	2 INTERNAL BIT TEST FOR SE COMMUNICAT	E SERIAL TX AND RIAL CHECK WITH TION CONTROLLER	SERIAL TX AND RX CHECK WITH		INTERNAL TX/RX BITE TEST		_	
3	SYSTEM INITILIZATION TEST	CHECK ALL COMMUNICATIO	ON	INTERNAL BITE TEST		PASS		
4	REAL TIME CLOCK TEST	CHECK REAL T	ME	INTERNAL BIT	TE TEST	PASS		
Test Wi	tness Team :-							
	Name	Designation		Signa	ture	Remark		
							_	

I

	FACTORY ACCEP TB TACA	PTANCE TEST OF AN UNIT	-
System Name	: TB_TACAN		
Document No.	T-PED-ATP-A2046- REV00	Page No	: Page 44 of 71

2.1.11 TRANSPONDER :



GET AUTOMATICALLY CONNECTED IN FIXTURE

About: The main purpose of the transponder is RF pulse pair generation. It can synthesize all the requirements allotted for TACAN generation. This generates the fundamental beacon TX signal this is identical to the monitor module and a transponder can be converted to monitors by interchanging the jumper settings.

The transponder also controls the low power amplifier by MOD A and MOD A/B signals.

		FACTORY ACCEP TB TACA	TANCE TEST OF	
System Name	:	TB_TACAN		
Document No.	:	T-PED-ATP-A2046- REV00	Page No	: Page 45 of 71
Connection: Su the connector J5 automatically get RF IN/ RF OUT.	itable as sł conr	e fixture with connector slot is nown in the above picture. Th nected to the system. This is a	provided in the TA re remaining two RI designed to avoid t	CAN test bench. Connect F IN and RF OUT will he wrong connectivity of the

	FACTORY ACCEPTANCE TEST OF TB TACAN UNIT									
System Name	:	TB_TAC	AN							
Document No.	:	T-PED-A REV00	-PED-ATP-A2046- EV00 : Page No : Page 46 of 71							
Test Report										
			•	The Complete Engineers	ETRIX 19 Balatilana Campany					
		TRANSPO	ONDER UNIT PANEL	FUNCTIONAL TE	ST REPORT					
	OPERATOR NAME 1 MODULE CAT 1									
		JOB NO.	JOB NO. 1 TEST DATE: 15-06-21							
		SERIAL NO.	2							
			FUNCTIO	NAL TEST						
		SLNO	COMMAND FOR BEACON FREQUENCY	N MEASURED BEACON FREQUENCY(MHz	RESULT					
		1	962MHz	962MHz	PASS					
		2	973 MHz	973 MHz	PASS					
		3	985 MHz	985 MHz	PASS					
		5	1009 MHz	1009 MHz	PASS					
		6	1021 MHz	1021 MHz	PASS					
	Test Witness Team:-									
		Name	Designation	Signature	Remark					
		Tested on TACAN Neometrix Engine	TEST BENCH Model No: D ering Pvt Ltd, E-148, Sector-63, I	esigned, developed and ma NOIDA, UP. India 201301	nufactured by M/s					



		FACTORY ACC TB T	CEPTANCE TEST OF ACAN UNIT	
System Name	:	TB_TACAN		
Document No.	:	T-PED-ATP-A2046- REV00	Page No	: Page 48 of 71
About : The rece receiver is auto to frequency).This is receives the fault	eiver uned s follo sign	demodulate the RF puls four cavity band pass fil wed by LNA image reje als when the demodulat	e pair received from the ter. This is set by the tra ct mixer, RF analysis an or video is not within lim	aircraft. The front end of the insponder (+/- 63MHz, TX id video decoder. This its/parameters.
Test Report:				

	FACTORY ACCEPTANCE TEST OF TB TACAN UNIT									
System Name :	TB_TACAN									
Document No. :	T-PED-AT REV00	T-PED-ATP-A2046- REV00Page No: Page 49 of 71								
)	The Congriste Engineer	TETRIX						
	RECEIVER UNIT PANEL FUNCTIONAL TEST REPORT OPERATOR NAME 1 MODULE CAT 1 JOB NO. 1 TEST DATE: 15-06-21 SERIAL NO. 2									
	FUNCTIONAL TEST									
	SL.NO 1 2	PARAMETER 2C COMMUNICATION TEST	MEASURED O/P PASS/FAIL	RESULT PASS						
	2 962MHz LOG VEDIO PASS DETECTED									
	3 970MHz LOG VEDIO PASS DETECTED									
	4 1100Mhz LOG VEDIO PASS									
	5 1	120MHz	LOG VEDIO DETECTED	PASS						
	6 1	130Mhz	LOG VEDIO DETECTED	PASS						
	Test Witness Team-									
	Name Designation Signature Remark									
Tested on TACAN TEST BENCH Model No: Designed, developed and manufactured by M/s Neometrix Engineering Pvt Ltd, E-148, Sector-63, NOIDA, UP. India 201301										



System Name : TB_TACAN Document No. : T-PED-ATP-A2046- REV00 Page No : Page 51 of 71 About : ANTENA interface unit forms the interface between MCU, interconnect antenna and if needed to a 3 rd party antenna system. It also acts a an interface between parallel, serial and CAN BUS communication. Connection : Connect the antenna interface unit with TACAN test bench with loom J6 as shown in the above picture. Test Report :			FACTOR	Y ACCEPTA TB TACAN	NCE TEST OF UNIT	
Document No. : T-PED-ATP-A2046- REV00 Page No : Page 51 of 71 About : ANTENA interface unit forms the interface between MCU, interconnect antenna and if needed to a 3 rd party antenna system. It also acts a an interface between parallel, serial and CAN BUS communication. Connection : Connect the antenna interface unit with TACAN test bench with loom J6 as shown in the above picture. Test Report :	System Name	:	TB_TACAN			
About : ANTENA interface unit forms the interface between MCU, interconnect antenna and if needed to a 3 rd party antenna system. It also acts a an interface between parallel, serial and CAN BUS communication. Connection : Connect the antenna interface unit with TACAN test bench with loom J6 as shown in the above picture. Test Report :	Document No.	:	T-PED-ATP-A2 REV00	2046-	Page No	: Page 51 of 71
Connection : Connect the antenna interface unit with TACAN test bench with loom J6 as shown in the above picture. Test Report :	About : ANTENA needed to a 3 rd p It also acts a an i	A inte arty a nterfa	rface unit forms th antenna system. ace between paral	e interface be lel, serial and	tween MCU, inte CAN BUS comr	erconnect antenna and if nunication.
Test Report :	Connection : Co in the above pictu	onnec ure.	t the antenna inte	rface unit with	TACAN test be	nch with loom J6 as shown
	Test Report :					

Document No. T-PED-ATP-A2046- REV00 Page No Page 52 of 71 Page No : Page 52 of 71 Image: Second Secon	ystem Na	me	: 1		N					
<image/>	ocument	No.	: F	Γ-PED-AT REV00	P-A2046-		Page No		: Page 52	of 71
OPERATOR NAME. amir MODULE CAT. 1 JON NO. 12 TEST DATE. 26/04/2021 SERIAL NO. 12 OEM PART NO. 274-FAU14A VOLTAGE +27.997 CURRENT +0.030 SENNO PARAMETERS ACCEPTENCE RANGE RESULT 1 CAN BUS INTERNAL BITE FOR CAN BUS PASS 2 SERIAL RS 485 INTERNAL BITE TEST FOR SERIAL 485 PASS 2 SERIAL RS 485 INTERNAL BITE TEST FOR SERIAL 485 PASS TEST INTERNAL BITE TEST FOR SERIAL 485 PASS		Ċ	ANTE	ENNA INTE	ERFACE UNI	TFUNCI	The Com	EOMI Note Engineering	Solutions Company	
JON NO. 12 TEST DATE. 26/04/2021 SERIAL NO. 12 OEM PART NO. 274-FAU14A VOLTAGE +27.997 CURRENT +0.030 SLNO PARAMETERS ACCEPTENCE RANGE RESULT 1 CAN BUS COMMUNICATION INTERNAL BITE FOR CAN BUS PASS 2 SERIAL RS 485 COMMUNICATION INTERNAL BITE TEST FOR SERIAL 485 PASS 2 SERIAL RS 485 COMMUNICATION INTERNAL BITE TEST FOR SERIAL 485 PASS TEST TEST INTERNAL BITE TEST FOR SERIAL 485 PASS	OF	OPERATOR NAME. amir				MODUL	DULE CAT. 1			
SERIAL NO. 12 OEM PART NO. 274-FAU14A VOLTAGE +27.997 CURRENT +0.030 SLNO PARAMETERS ACCEPTENCE RANGE RESULT 1 CAN BUS COMMUNICATION TEST INTERNAL BITE FOR CAN BUS PASS PASS 2 SERIAL RS 485 COMMUNICATION TEST INTERNAL BITE TEST FOR SERIAL 485 PASS PASS 2 COMMUNICATION TEST INTERNAL BITE TEST FOR SERIAL 485 PASS PASS	JC	NN NO.		12		TEST D	DATE. 26/04/2021			
VOLTAGE +27.997 CURRENT +0.030 SLNO PARAMETERS ACCEPTENCE RANGE RESULT 1 CAN BUS COMMUNICATION TEST INTERNAL BITE FOR CAN BUS PASS 2 SERIAL RS 485 COMMUNICATION TEST INTERNAL BITE TEST FOR SERIAL 485 PASS 2 SERIAL RS 485 COMMUNICATION TEST INTERNAL BITE TEST FOR SERIAL 485 PASS 2 SERIAL RS 485 COMMUNICATION TEST INTERNAL BITE TEST FOR SERIAL 485 PASS Test Witness Team :- Internal bite test for serial 485 Pass	SE	SERIAL NO. 12		12			ART NO. 274-FAU1		A	
SLNOPARAMETERSACCEPTENCE RANGERESULT1CAN BUS COMMUNICATION TESTINTERNAL BITE FOR CAN BUS PASSPASS2SERIAL RS 485 COMMUNICATION TESTINTERNAL BITE TEST FOR SERIAL 485 PASSPASSTest Witness Team :-NameDesignationSignatureRemark	vo	VOLTAGE +27.9		+27.997	97 CUF		+0.030			
CAN BUS COMMUNICATION TEST INTERNAL BITE FOR CAN BUS PASS 2 SERIAL RS 485 COMMUNICATION TEST INTERNAL BITE TEST FOR SERIAL 485 PASS Test Witness Team :- Name Designation Signature Remark Image: Serial colspan="2">Image: Serial colspan="2">Serial colspan="2" Serial colspan= co	SL	SLNO PARAMETE			ACC	EPTENC	E RANGE		RESULT	
SERIAL RS 485 COMMUNICATION TEST INTERNAL BITE TEST FOR SERIAL 485 PASS Test Witness Team :- Name Designation Signature Remark		1	COMN	AN BUS IUNICATION TEST	INTERNAL BITE F		FOR CAN BUS		PASS	
Name Designation Signature Remark Image: Second secon		2 SERIAL RS 485 2 COMMUNICATION TEST			INTERNAL BITE TEST FOR SERIAL 485			485	PASS	
Name Designation Signature Remark Image: Second sec	Test Witness Team :-									
		1	lame		Designation		Signat	ire	Remark	





	FACTORY ACCEPTANCE TEST OF TB TACAN UNIT								
System Name :	TB_TACAN								
Document No. :	T-PED-ATP-A2046- REV00	Page No	o : Page 55 of 71						
Testing Table:									
		†††NEOR The Complete Enginee	TETRIX ring Bolutions Company						
TRANSFER UNIT PANEL FUNCTIONAL TEST REPORT									
OPERATOR NA	ME 1	MODULE CAT. 1							
JOB NO.	1	TEST DATE:	15-06-21						
SERIAL NO.	2								
FUNCTIONAL TEST									
SL.NO	PARAMETER	MEASURED O/P	RESULT						
1	SELF	PASS/FAIL	PASS						
2	CAN COMMUNICATION TEST	PASS/FAIL	PASS						
3	RECEIVER RELAY 1 TEST	PASS/FAIL	PASS						
4	RECEIVER RELAY 2 TEST	PASS/FAIL	PASS						
5	TX FORWARD POWER TESt	PASS/FAIL	PASS						
6	TX REVERSE POWER TEST	PASS/FAIL	PASS						
Test Witness Name	Team:- Designation	Signature	Remark						



				FACTORY	ΆCC ΓΒ ΤΑ	EPTAN CAN L	NCE TES	T OF		
Syster	n Nam	ne	: TB	_TACAN						
Docun	nent N	0.	T-F RE	PED-ATP-A2 V00	046-		Page No		:	Page 57 of 71
TEST	REPOF	RT :								
		*				† The	Tempitte Exgineering	ETRIX Bolistions Company		
		С	IRCUIT	BREAKERS FU	NCTIO	NAL TES	T REPORT		_	
	OPERATO	OR NAME.	Amir		MODU	ILE CAT.	cat-a]	
	JON NO.		c12		TEST	DATE.	22/04/2021]	
	SERIAL N	0.	123		OEMF	PART NO.	125-003]	
	VOLTAGE		+12.99	9	CURR	ENT	+15.880]	
			L						1	
	SL.NO	SUPPL	Y PEAK RENT	ACCEPTENCE R	ANGE	MEASUR	RED PEAK RRENT	RESULT		
	1	12.00	Amps	11.98 - 12.0	2	+1	1.993	PASS		
	2	14.00	Amps	13.98 - 14.0	2	+1	3.992	PASS		
	3	16.00	Amps	15.98 - 16.0	2	+1	5.992	PASS		
	4	18.00	Amps	17.98 - 18.0	2	+1	5.942	FAIL		
	5	20.00	Amps	19.98 – 20.0	2	+1	5.880	FAIL		
	Test Wit	tness Tea	am :-						-	
		Name		Designation		Sigr	ature	Remark]	

		FACTORY ACCEPT TB TACAI	ANCE TEST OF	
System Name	:	TB_TACAN		
Document No.	:	T-PED-ATP-A2046- REV00	Page No	: Page 58 of 71
2.1.16 HPA(HIGI	H PC	WER AMPLIFIER)		
			10 10 10 10 10 10 10 10 10 10 10 10 10 1	
NIL		0		AMPLIFIER
				ICH POWER
•				-

		FAC	сто	RY AC	CEPTA ACAN	NCE TE UNIT	ST OF		
System Name	:	TB_TAC	AN						
Document No.	:	T-PED-A REV00	TP-	A2046-		Page I	No	:	Page 59 of 71
TEST REPORT:									
						The Complete Engine	METRIX ering Bolations Company		
		HIGH PC	WER	AMPLIFIE	R UNIT P	ANEL FUNC	TIONAL TEST		
		OPERATOR NAM JOB NO. SERIAL NO.	/IE V	Vajied1 1		MODULE (TEST DATE	CAT 1 15-06-21		
	FUNCTIONAL TEST								
		SL.NO	PA	RAMETERS	STANDAR VALUE	D RESU	ц		
		2	F1L1 F2L2		960Mhz 1.0Ghz	PAS	5		
		3	FBLB		1.025Ghz	PAS	s		
		4	F4L4		1.050Ghz	PAS	5		
		5	FSLS		1.100Ghz	PAS	5		
		6	F6L6		1.150Ghz	PAS	5		
		Test Witness	Team:						
		Name		Designation	on S	ignature	Remark		
		L			1		l		
		Tested on TACAN Neometrix Engin	TEST BE	ENCH Model No: vt Ltd, E-148, Sec	Designed tor-63, NOIDA,	l, developed and i UP. India 201301	manufactured by M/s		

	FACTORY ACCEF TB TACA	PTANCE TEST OF AN UNIT	-
System Name	: TB_TACAN		
Document No.	: T-PED-ATP-A2046- : REV00	Page No	: Page 60 of 71

2.1.17 LPA(LOW POWER AMPLIFIER)



Intercent Indiana Intercent Indiana ystem Name : T.PED-ATP-A2046- REV00 Page No : Page 61 of 71 TEST REPORTS : Image:	THE TACAN UNIT system Name : typetem Name : TPED-ATP-A2046- Page No : page 61 of 71 TEST REPORTS : CONCERNING MODULE CAT CONCERNING CONCERNING MODULE CAT CONCERNING MODULE CAT CONCERNING MODULE CAT CONCERNING MODULE CAT CONCERNING <		EST OF	PTANCE TEST	RY ACCEP	FACTO			
ystem Name Y. TB_TACAN ocument No. Y. TPED-ATP-A2046- REVO Page No Y. Page 61 of 71 TEST REPORTS:	eystem Name from TB_TACAM Page No from Page 61 of 71 Page 72 Page 72			AN UNIT	TB TACA	TACTO			
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Document No.	: T-PED REV00	-ATP-A2046-)	Page No	Page 62 of 71
2.1.18 REMOTE S	TATUS INC			
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Systen	n Nam	ne :	TB_TA	CAN				
Docum	nent N	lo. :	T-PED- REV00	ATP-A2	046-	Page	No :	Page 63 of 71
TEST F	REPOR	RT:						
		REMO	DTE STATU	S PANEL I	t The FUNCTIONAL T	tineo	METRIX Intering Solutions Company	
	OPERATO	OR NAME.	1		MODULE CAT.	1		
	JON NO.	1	1		TEST DATE.	27/04/	2021	
	SERIAL N	io. [1	1 007		OEM PART NO.	274-F	AU14A	
	VOLTAG		+11.997		CORRENT	+0.05		
	SLNO	PARA	METERS	ACC	EPTENCE RANGE		RESULT	
	1	INTERNAL FOR S COMMU	BITE TEST SERIAL NICATION	SERIAL T	AND RX CHECK	WITH	PASS	
	2	SHUTDO	OWN TEST	SHUTDO	WN COMMAND RE	EAD	PASS	
	3	RESE	T TEST	RESE	T COMMAND REAL	D	PASS	
	4	SET TXP1	MAIN TEST	TXP1 M	AIN COMMAND RE	AD	PASS	
	5	SET TXP2	MAIN TEST	TXP2 M	AIN COMMAND RE	AD	PASS	
	6	IDENT ON	VOFF TEST	IDEN.	T COMMAND READ)	PASS	
	7	ALARM OI	N/OFF TEST	ALARI	M COMMAND REA	D	PASS	
	8		PTEST	A	LL LAMP GLOW		PASS	
	Test W	mess rean			o :			
		Name		vesignation	Sigi	nature	Remark	

FACTORY ACCEPTANCE TEST OF TB TACAN UNIT

System Name : TB_TACAN

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3.0.0 EXECUTION

3.1.0 General

Testing of equipment and relevant documentation at the manufacturer's factory against the requirements of an approved test protocol. The successfully executed protocol conform that the TB-TACAN is satisfactorily ready to ship for Delivery

3.2.0 Factory Details

Firm Name	NEOMETRIX
Locality Type	R&D Lab / Factory
Address	#26, 4 TH STREET,LAKSHMI NAGAR,VELACHERY,CHENNAI-42
Point of Contact Person	AAMIR ALAM
Phone no.	044-45538454
Fax no.	044-45538454
Email	CONTACT@NEOMETRIXGROUP.COM

3.3.0 IDENTIFICATION OF EXECUTOR

All executors involved in this protocol execution are to sign within the prescribed format given below:

Name	Designation	Signature	Initial	Date

FACTORY ACCEPTANCE TEST OF **TB TACAN UNIT**

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4.0.0 FACTORY ACCEPTANCE TEST CHECKLIST

lest	Test Name	Sta	tus	Tested By
Number	rest name	Pass	Fail	/ DATE
1	Understanding of Actual Requirement			
2	Standard Work Procedures			
4	As-Built Drawing			
5	Calibration Certificates (Wherever required)			
6	Equipment's and Material's Datasheet			
7	Standard Operating Procedure (SOP)			
8	Installation, Maintenance and User's Manual			
9	BOM List			
10	Visual Inspection of Mounting and Screw Check			
11	Verifications of Tag and Label			
12	Safety Interlock Check			
13	Heat dissipation and Ventilation of TB Panel Check			
14	Startup Process			
15	Control System function			
16	Equipment Interface			
17	Shutdown Process			
18	Troubleshooting Procedure (ATP)			

	FACTORY ACCE TB TAC	PTANCE TEST OF	
System Name :	TB_TACAN		
Document No. :	T-PED-ATP-A2046- REV00	Page No	: Page 66 of 71
5.0.0 FAT DISCR	EPANCY REPORT		
DISC	REPANCY AND CORREC	CTIVE ACTION RE	PORT FORM
Discrepancy Numb	per		
Document Ref. No			
Chapter ref. No.			
DISCREPANCY			
Describe the		Discrepancy Le	evel
Discrepancy	Minor	Major	Critical
Reported by			DATE
CORRECTIVE AC	TION		
Describe corrective	e action taken		
Papartad ta			DATE
	ΤΙΟΝ		DATE
Acceptable?	Yes	No	
Discussion			
Approved by:			DATE
COMPLETION			
Completed by			DATE

	FACTORY ACCE	PTANCE TEST O	F
System Name : TB_T	ACAN		
Document No. : T-PE REV(D-ATP-A2046-)0	Page No	: Page 67 of 71
6.0.0 <u>CONCLUSION ANE</u> Test Data Sheets and disc summary report. The su approval of Qualification Pa CONCLUSION	D COMMENTS prepancy report sh mmary of Test F ackage.	all be reviewed by Report shall be us	v validation team to prepare sed to draw conclusion for
COMMENTS			
Prepared by	Check	ed by	Approved by

FACTORY ACCEPTANCE TEST	OF
TB TACAN UNIT	

System Name : TB_TACAN

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7.0.0 TERMINOLOGIES

A. Alarm

A device or function that signals the existence of an abnormal condition by means of an audible or visible discrete change, or both, intended to attract attention.

B. Control System

A system in which deliberate guidance or manipulation is used to achieve a prescribed value of a variable.

C. Interlock

An arrangement of signals, which perform a logical function in a control system.

D. UUT

Unit Under Test

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8.0.0 SUPPORTING DOCUMENTATION

Sr. No.	Description of Attachment	Reference	Remark	Checked By / DATE

FACTORY ACCEPTANCE TEST OF TB TACAN UNIT					
Syste	em Name : TB_TACAN				
Docu	Iment No. : T-PED-ATP-A2046- REV00	Page No	: Page 70 of 71		
9.0.0	FAT DOCUMENTS				
Sr. No.	CERTIFICATE Of Attachment	Reference	Remark	Checked By / Date	
1	Calibration Report of				
2	Calibration Report of				
3	Calibration Report of				
4	Calibration Report of				
5	Calibration Report of				
6	Calibration Report of				
7	Calibration Report of				
8	Calibration Report of				
9	Calibration Report of				
10	Calibration Report of				
11	Warranty Certificate of				
12	Warranty Certificate of				
13	Warranty Certificate of				
14	Warranty Certificate of				
15	Warranty Certificate of				
16	Warranty Certificate of				
17	Warranty Certificate of				
18	Warranty Certificate of				
19	Warranty Certificate of				
20	Warranty Certificate of				

FACTORY ACCEPTANCE TEST OF TB TACAN UNIT					
System Name	:	TB_TACAN			
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