



दूरसंचार विभाग, भारत सरकार


DEPARTMENT OF TELECOMMUNICATION, GOVERNMENT OF INDIA

दूरसंचार अभियांत्रिकी केंद्र

TELECOMMUNICATION ENGINEERING CENTRE

CERTIFICATE OF MANDATORY CONFORMANCE

This is to certify that the product described below conforms to the Essential Requirement issued by TEC under Mandatory Testing and Certification of Telecom Equipment as notified vide Indian Telegraph (Amendment) Rules, 2017.

i.	*Certificate No.: 379400372	ii.	Dated: 21-Nov-2022
iii.	Certificate Category: Regular	iv.	Certificate Type: NEW
v.	APPLICANT: Belden India Private Limited, Unit No 233-236 2nd floor Spazende Tower B Sohna Road Sector 47 Gurugram Haryana 122002	vi.	ORIGINAL EQUIPMENT MANUFACTURER: Hirschmann Automation and Control GmbH, Stuttgarter Str. 45-51, 72654 Neckartenzlingen / Germany
vii.	PRODUCT NAME: LAN Switch	viii.	PRODUCT VARIANT: L2 LAN Switch
ix.	PREVIOUS CERTIFICATE NO.: NA	x.	PREVIOUS CERTIFICATE ISSUED DATE: NA
xi.	MODEL NO.: MAR1032	xii.	FAMILY NAME: NA
xiii.	ASSOCIATED MODEL NO.: As given at Table-1 overleaf	xiv.	INTERFACES TESTED: As given at Table-2 overleaf
xv.	SOFTWARE VERSION: L2P-09.1.00	xvi.	HARDWARE VERSION: Z24S76
xvii.	VALID FROM: 21-Nov-2022	xviii.	VALID UPTO: 20-Nov-2032
xix.	ER NO.: TEC37942207	DIRECTOR(TC-I) K L Bhawan, Janpath, New Delhi - 110001	
xx.	EMI / EMC CLASS: A		
xxi.	QR CODE: 		

Note:

- *1. This certificate is valid for product(s) manufactured in Germany and India only, as per the details at Table-3.
2. This certificate is issued for model/family name indicated at (xi) above and applicable for associated/ family model(s) mentioned at Table-1, overleaf only.
3. Bill of Material covered under this certificate is given at Table-4.
4. Terms & Conditions mentioned at MTCTE portal (<https://www.mtcte.tec.gov.in/>) shall be applicable.

Table-1

List of Associated/Family Models	
i.	MAR1132
ii.	MAR1030
iii.	MAR1130
iv.	MAR1022
v.	MAR1122
vi.	MAR1020
vii.	MAR1120



Table-2

List of Interfaces Tested	
i.	1 G Optical Ethernet
ii.	10 100 1000 BASE-T Ethernet
iii.	10 100 BASE-T Ethernet



Table-3

List of manufacturing locations (as declared by the applicant) for which this certificate (No. 379400372) is valid:								
S. No.	Product Model number	Contract Manufacturing	Manufacturing Location Address	Contact Person Name (Plant Incharge)	E-mail-ID	Contact number	*Country Of Origin	**Country of Manufacturing
1	MAR1032	No	Hirschmann Automation and Control GmbH Stuttgarter Str 45-51 72654 Neckartenzlingen Germany	Michael Schlecht	michael.schlecht@belden.com	497127142101	Germany	Germany
2	MAR1032	No	Belden India Private Limited Plot No D-228/1 Chakan MIDC Phase II Village Bhambholi Taluka Khed Pune 410507	Avinash Pawar	Avinash.Pawar@belden.com	918956980234	India	India
3	MAR1132	No	Hirschmann Automation and Control GmbH Stuttgarter Str 45-51 72654 Neckartenzlingen Germany	Michael Schlecht	michael.schlecht@belden.com	497127142101	Germany	Germany
4	MAR1132	No	Belden India Private Limited Plot No D-228/1 Chakan MIDC Phase II Village Bhambholi Taluka Khed Pune 410507	Avinash Pawar	Avinash.Pawar@belden.com	918956980234	India	India
5	MAR1030	No	Hirschmann Automation and Control GmbH Stuttgarter Str 45-51 72654 Neckartenzlingen Germany	Michael Schlecht	michael.schlecht@belden.com	497127142101	Germany	Germany
6	MAR1030	No	Belden India Private Limited Plot No D-228/1 Chakan MIDC Phase II Village Bhambholi Taluka Khed Pune 410507	Avinash Pawar	Avinash.Pawar@belden.com	918956980234	India	India
7	MAR1130	No	Hirschmann Automation and Control GmbH Stuttgarter Str 45-51 72654 Neckartenzlingen Germany	Michael Schlecht	michael.schlecht@belden.com	497127142101	Germany	Germany
8	MAR1130	No	Belden India Private Limited Plot No D-228/1 Chakan MIDC Phase II Village Bhambholi Taluka Khed Pune 410507	Avinash Pawar	Avinash.Pawar@belden.com	918956980234	India	India
9	MAR1022	No	Hirschmann Automation and Control GmbH Stuttgarter Str 45-51 72654	Michael Schlecht	michael.schlecht@belden.com	497127142101	Germany	Germany

List of manufacturing locations (as declared by the applicant) for which this certificate (No. 379400372) is valid:

			Neckartenzlingen Germany					
10	MAR1022	No	Belden India Private Limited Plot No D-228/1 Chakan MIDC Phase II Village Bhambholi Taluka Khed Pune 410507	Avinash Pawar	Avinash.Pawar@belden.com	918956980234	India	India
11	MAR1122	No	Hirschmann Automation and Control GmbH Stuttgarter Str 45-51 72654 Neckartenzlingen Germany	Michael Schlecht	michael.schlecht@belden.com	497127142101	Germany	Germany
12	MAR1122	No	Belden India Private Limited Plot No D-228/1 Chakan MIDC Phase II Village Bhambholi Taluka Khed Pune 410507	Avinash Pawar	Avinash.Pawar@belden.com	918956980234	India	India
13	MAR1020	No	Hirschmann Automation and Control GmbH Stuttgarter Str 45-51 72654 Neckartenzlingen Germany	Michael Schlecht	michael.schlecht@belden.com	497127142101	Germany	Germany
14	MAR1020	No	Belden India Private Limited Plot No D-228/1 Chakan MIDC Phase II Village Bhambholi Taluka Khed Pune 410507	Avinash Pawar	Avinash.Pawar@belden.com	918956980234	India	India
15	MAR1120	No	Hirschmann Automation and Control GmbH Stuttgarter Str 45-51 72654 Neckartenzlingen Germany	Michael Schlecht	michael.schlecht@belden.com	497127142101	Germany	Germany
16	MAR1120	No	Belden India Private Limited Plot No D-228/1 Chakan MIDC Phase II Village Bhambholi Taluka Khed Pune 410507	Avinash Pawar	Avinash.Pawar@belden.com	918956980234	India	India

Note: *1. Country of Origin is as per the criteria defined under Custom Rules.

**2. Country of Manufacturing refers to the place where the Telecom product under certification against product model number given above is manufactured/assembled as complete unit only.

Table-4

Details of major modules / components (as declared by the applicant) of the model under certification (BILL OF MATERIAL)

Module Name/Attribute Name	Module Code	Module Hardware Version	Module Software Version	Sub Unit Name	Sub Unit Model No.	Remarks	Module present in Main Model	Module present in Associated model-1	Module present in Associated model-2	Module present in Associated model-3	Module present in Associated model-4	Module present in Associated model-5	Module present in Associated model-6	Module present in Associated model-7
Module No.							MAR1032	MAR1132	MAR1030	MAR1130	MAR1022	MAR1122	MAR1020	MAR1120
EMI/EMC Class of equipment: A	MAR1032	Z24S76	L2P-09.1.00			L2 LAN Switch. The primary difference between main model and associated models is the number of ports and	Y	Y	Y	Y	Y	Y	Y	Y

Details of major modules / components (as declared by the applicant) of the model under certification (BILL OF MATERIAL)

Module Name/Attribute Name	Module Code	Module Hardware Version	Module Software Version	Sub Unit Name	Sub Unit Model No.	Remarks	Module present in Main Model	Module present in Associated model-1	Module present in Associated model-2	Module present in Associated model-3	Module present in Associated model-4	Module present in Associated model-5	Module present in Associated model-6	Module present in Associated model-7
						interfaces.								
PCB Motherboard	837-525-005	Z03S05	L2P-09.1.00			Software name: HiOS	Y	Y	Y	Y	Y	Y	Y	Y
Gigabit Ethernet Combo port	837-489-005	Z01S02	no SW on Module				Y	Y	Y	Y	N	N	N	N
2 Gigabit Ethernet ports SFP	837-519-005	Z01S01	no SW on Module				Y	Y	Y	Y	N	N	N	N
2 Gigabit Ethernet ports RJ45	837-488-005	Z04S01	no SW on Module				Y	Y	Y	Y	N	N	N	N

Details of major modules / components (as declared by the applicant) of the model under certification (BILL OF MATERIAL)

Module Name/Attribute Name	Module Code	Module Hardware Version	Module Software Version	Sub Unit Name	Sub Unit Model No.	Remarks	Module present in Main Model	Module present in Associated model-1	Module present in Associated model-2	Module present in Associated model-3	Module present in Associated model-4	Module present in Associated model-5	Module present in Associated model-6	Module present in Associated model-7
2 x Fast Ethernet Port Twisted Pair (Tx) / RJ45	837-520-005	Z01S02	no SW on Module				Y	Y	Y	Y	Y	Y	Y	Y
2 x Fast Ethernet Port SFP slot (100 Mbit)	837-493-005	Z01S01	no SW on Module				Y	Y	Y	Y	Y	Y	Y	Y
2 x Fast Ethernet Port Multimode / SC (100 Mbit)	837-488-025	Z04S02	no SW on Module				Y	Y	Y	Y	Y	Y	Y	Y
2 x Fast Ethernet Port	837-	Z01S01	no SW on Module				Y	Y	Y	Y	Y	Y	Y	Y

Details of major modules / components (as declared by the applicant) of the model under certification (BILL OF MATERIAL)

Module Name/Attribute Name	Module Code	Module Hardware Version	Module Software Version	Sub Unit Name	Sub Unit Model No.	Remarks	Module present in Main Model	Module present in Associated model-1	Module present in Associated model-2	Module present in Associated model-3	Module present in Associated model-4	Module present in Associated model-5	Module present in Associated model-6	Module present in Associated model-7
Ethernet Port Multimode / MTRJ (100Mbit)	493-105		on Module											
2 x Fast Ethernet Port Multimode / ST (100 Mbit)	837-488-135	Z00S01	no SW on Module				Y	Y	Y	Y	Y	Y	Y	Y
2 x Fast Ethernet Port Single mode LH/SC	837-488-165	Z00S00	no SW on Module				Y	Y	Y	Y	Y	Y	Y	Y

Details of major modules / components (as declared by the applicant) of the model under certification (BILL OF MATERIAL)

Module Name/Attribute Name	Module Code	Module Hardware Version	Module Software Version	Sub Unit Name	Sub Unit Model No.	Remarks	Module present in Main Model	Module present in Associated model-1	Module present in Associated model-2	Module present in Associated model-3	Module present in Associated model-4	Module present in Associated model-5	Module present in Associated model-6	Module present in Associated model-7
(100 Mbit)														
2 x Fast Ethernet Port SFF MM / LC (100 Mbit)	837-640-015	Z00S00	no SW on Module				Y	Y	Y	Y	Y	Y	Y	Y
2 x Fast Ethernet Port Single mode / SC (100 Mbit)	837-488-145	Z00S01	no SW on Module				Y	Y	Y	Y	Y	Y	Y	Y
2 x Fast Ethernet Port Single	837-540-005	Z01S02	no SW on Module				Y	Y	Y	Y	Y	Y	Y	Y

Details of major modules / components (as declared by the applicant) of the model under certification (BILL OF MATERIAL)

Module Name/Attribute Name	Module Code	Module Hardware Version	Module Software Version	Sub Unit Name	Sub Unit Model No.	Remarks	Module present in Main Model	Module present in Associated model-1	Module present in Associated model-2	Module present in Associated model-3	Module present in Associated model-4	Module present in Associated model-5	Module present in Associated model-6	Module present in Associated model-7
mode / ST (100Mbit)														
2 x Fast Ethernet Port Single mode LH/SC 200km	837-488-185	Z00S00	no SW on Module				Y	Y	Y	Y	Y	Y	Y	Y
DC Power Supply 24/36/48 V (Pluggable)	837-485-001	0005	no SW on Module			33.6W	Y	Y	Y	Y	Y	Y	Y	Y
DC Power	837-485-001	0005	no SW on				Y	N	Y	N	Y	N	Y	N

Details of major modules / components (as declared by the applicant) of the model under certification (BILL OF MATERIAL)

Module Name/Attribute Name	Module Code	Module Hardware Version	Module Software Version	Sub Unit Name	Sub Unit Model No.	Remarks	Module present in Main Model	Module present in Associated model-1	Module present in Associated model-2	Module present in Associated model-3	Module present in Associated model-4	Module present in Associated model-5	Module present in Associated model-6	Module present in Associated model-7
Supply 24/36/48 V (Terminal)			Module											
AC/DC Power Supply 120/250 V DC, 110/230 V AC (Pluggable)	837-486-002	Z00S00	no SW on Module			AC Supply: 77W/92W or DC Supply: 77W/100W	Y	Y	Y	Y	Y	Y	Y	Y
AC/DC Power Supply 120/250 V DC, 110/230	837-486-002	Z00S00	no SW on Module				Y	N	Y	N	Y	N	Y	N

Details of major modules / components (as declared by the applicant) of the model under certification (BILL OF MATERIAL)

Module Name/Attribute Name	Module Code	Module Hardware Version	Module Software Version	Sub Unit Name	Sub Unit Model No.	Remarks	Module present in Main Model	Module present in Associated model-1	Module present in Associated model-2	Module present in Associated model-3	Module present in Associated model-4	Module present in Associated model-5	Module present in Associated model-6	Module present in Associated model-7
V AC (Terminal)														
V.24 interface (RJ11 Socket)	In built	Z03S05	no SW on Module				Y	Y	Y	Y	Y	Y	Y	Y

*** End of the certificate***