



दूरसंचार विभाग, भारत सरकार

DEPARTMENT OF TELECOMMUNICATIONS, 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.: 379402016	ii.	Dated: 03-May-2024
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: L3 LAN Switch
ix.	PREVIOUS CERTIFICATE NO.: NA	x.	PREVIOUS CERTIFICATE ISSUED DATE: NA
xi.	MODEL NO.: GRS1042	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: 09.4.02	xvi.	HARDWARE VERSION: HW rev. 1
xvii.	VALID FROM: 03-May-2024	xviii.	VALID UPTO: 02-May-2034
xix.	ER NO.: TEC37942403	DIRECTOR (TC-1) 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.	GRS1142



Table-2

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



Table-3

List of manufacturing locations (as declared by the applicant) for which this certificate (No. 379402016) 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	GRS1042	No	Hirschmann Automation and Control GmbH Stuttgarter Str D60 45 51 72654 Neckartenzlingen Germany	Michael Schlecht	michael.schlecht@belden.com	497127142101	Germany	Germany
2	GRS1042	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	8956980234	India	India
3	GRS1142	No	Hirschmann Automation and Control GmbH Stuttgarter Str D60 45 51 72654 Neckartenzlingen Germany	Michael Schlecht	michael.schlecht@belden.com	497127142101	Germany	Germany
4	GRS1142	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	8956980234	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/Atrtribute 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 No.							GRS1042	GRS1142
EMI/EMC Class of equipment: A	GRS1042	HW rev. 1	09.4.02			The primary difference between main model and associated model is the number of interfaces & orientation of the Ports. (GRS1042- Ports on Front side of the switch GRS1142- Ports on Rear side of the switch)	Y	Y
Microprocesso r	AM5716AABC XA	Z02	09.4.02			Maximun operating	Y	Y

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

Module Name/Atrtribute 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
						frequency: Maximun Frequency of internal CPU is 1.5GHz		
PCB Motherboard	742716002						Y	Y
1G Ethernet Electrical	742716002					Total: 18 Ports RJ45 socket for 10/100/1000 Mbit/s Twisted Pair connections	Y	Y
1G Ethernet Optical	742716002					Total: 14 Ports SFP slots for 1/2.5 Gbit/s F/O connections	Y	Y
Fast Ethernet	74259xxxx					8 Ports (FX,	Y	Y

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

Module Name/Atrtribute 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
Optical						LX)		
Media Module 1	GMM20					742596001: MediaModule PCB with 4 DSx ports Multimode, DSC, 100 Mbit/s 742597001: : MediaModule PCB with 4 DSx ports Singlemode, DSC, 100 Mbit/s Singlemode, ST, 100 Mbit/s	Y	Y
Media Module 2	GMM30					742597001: MediaModule PCB with 4	Y	Y

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

Module Name/Atrtribute 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
						DSx ports Singlemode, DSC, 100 Mbit/s Singlemode, ST, 100 Mbit/s 742587001: MediaModule PCB_non- PoE/PoE with 4 TX ports RJ45, 10/100/1000 Mbit/s		
Media Module 3	GMM32					742587001: MediaModule PCB PoE with 4 TX ports RJ45, 10/100/1000 Mbit/s 742597001:	Y	Y

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

Module Name/Atrtribute 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
						MediaModule PCB with 4 DSx ports Singlemode, DSC, 100 Mbit/s Singlemode, ST, 100 Mbit/s		
Media Module 4	GMM40					742574001:MediaModule PCB_ non-PoE/PoE with 8 TX ports RJ45, 10/100/1000 Mbit/s 742582001: MediaModule PCB with 4 SFP slots, (SR, LR) 100/1000	Y	Y

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

Module Name/Atrtribute 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
						Mbit/s 742583001: MediaModule PCB with 4 SFP slots, (SR, LR) 100/1000 Mbit/s		
Media Module 5	GMM42					742574001:MediaModule PCB_ non-PoE/PoE with 8 TX ports RJ45, 10/100/1000 Mbit/s 742583001: MediaModule PCB with 4 SFP slots, (SR, LR) 100/1000	Y	Y

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

Module Name/Atrtribute 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
						Mbit/s		
Power Supply	PSU-1141-03X					GPS1-C: Low voltage DC PSU (24 to 48V DC)	Y	Y
Power Supply	PSU-0141-214					GPS1-K: High voltage AC/DC PSU (60 to 250V DC / 110 to 240V AC)	Y	Y
Power Supply (PoE/PoE+)	GPS3-P					PoE/PoE+ PSU: 48V DC (PoE) to 54V DC (PoE+)	Y	Y

*** End of the certificate***