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.:** 379403061	ii.	**Dated:** 30-Jan-2025
iii.	**Certificate Category:** Regular	iv.	**Certificate Type:** NEW
v.	**APPLICANT:** Belden India Private Limited, Unit No 233-236 2nd floor Spazende Tower B Sohna RoadSector 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.:** GRS1030	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:** HiOS-07.1.00	xvi.	**HARDWARE VERSION:** Z03S18
xvii.	**VALID FROM:** 30-Jan-2025	xviii.	**VALID UPTO:** 29-Jan-2035
xix.	**ER NO.:** TEC37942410		
xx.	**EMI / EMC CLASS:** A		
xxi.	**QR CODE:**		**DIRECTOR (TC-1)** **K L Bhawan,** **Janpath, New Delhi - 110001**

Note*:*

*1. This certificate is valid for product(s) manufactured in India and Germany 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.
5. This is a certificate of conformity against the parameters of Essential Requirements only prescribed for the product and does not substitute the requirements of NSDTS (National Security Directive on Telecommunication Sector).

Table-1

List of Associated/~~Family~~ Models	
i.	GRS1020
ii.	GRS1130
iii.	GRS1120

Table-2

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

Table-3

	List of manufacturing locations (as declared by the applicant) for which this certificate (No. 379403061) 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	GRS1030	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
2	GRS1030	No	Hirschmann Automation and Control GmbH Stuttgart Str 45 51 72654 Neckartenzlingen Germany	Michael Schlecht	michael.schlecht@belden.com	7127142101	Germany	Germany
3	GRS1020	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
4	GRS1020	No	Hirschmann Automation and Control GmbH Stuttgart Str 45 51 72654 Neckartenzlingen Germany	Michael Schlecht	michael.schlecht@belden.com	7127142101	Germany	Germany
5	GRS1120	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
6	GRS1120	No	Hirschmann Automation and Control GmbH Stuttgart Str 45 51 72654 Neckartenzlingen Germany	Michael Schlecht	michael.schlecht@belden.com	7127142101	Germany	Germany
7	GRS1130	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
8	GRS1130	No	Hirschmann Automation and Control GmbH Stuttgart Str 45 51 72654 Neckartenzlingen Germany	Michael Schlecht	michael.schlecht@belden.com	7127142101	Germany	Germany

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

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**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/Atrtibute 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 No.							GRS1030	GRS1020	GRS1130	GRS1120
EMI/EMC Class of equipment: A	GRS1030	Z03S18	HiOS-07.1.00			The main difference between GRS1030 & GRS1130 variants is orientation of the ports. GRS1030-Ports on front side. GRS1130-Ports on back side.	Y	Y	Y	Y
Microprocessor	NXP-Freescale MCIMX253 CJM4A						Y	Y	Y	Y
PCB	74271600x						Y	Y	Y	Y

Details of major modules / components (as declared by the applicant) of the model under certification (BILL OF MATERIAL)										
Module Name/Atrtibute 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
Motherboard										
1G Ethernet Electrical	74271600x					Total: 04 Ports RJ45 socket for 10/100/1000 Mbit/s Twisted Pair connections	Y	N	Y	N
1G Ethernet Optical	74271600x					Total: 04 Ports SFP slots for 1 Gbit/s F/O connections (LX, SX)	Y	N	Y	N
Fast Ethernet Electrical	74271600x					Total: 08 Ports RJ45 socket for	Y	Y	Y	Y

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Module Name/Atribute 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
						10/100 Mbit/s Twisted Pair connections				
Fast Ethernet Optical	74271600x					Total: 08 Ports SFP slots for 100 Mbit/s F/O connections (LX, SX)	Y	Y	Y	Y
Media Module	GRM20					742596001: MediaModule PCB with 4 DSx ports Multimode, DSC, 100 Mbit/s Multimode, ST, 100 Mbit/s	Y	Y	Y	Y

Details of major modules / components (as declared by the applicant) of the model under certification (BILL OF MATERIAL)										
Module Name/Atrtibute 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
						742597001: MediaModule PCB with 4 DSx ports Singlemode, DSC, 100 Mbit/s Singlemode, ST, 100 Mbit/s 742592001: MediaModule PCB with 8 TX ports RJ45, 10/100 Mbit/s 74258x001: Media Module PCB with 4 SFP slots, (SR, LR)				

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Details of major modules / components (as declared by the applicant) of the model under certification (BILL OF MATERIAL)										
Module Name/Atrtibute 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
						100 Mbit/s 742595001: Media Module PCB with 4 TX ports RJ45, 10/100 Mbit/s				
Power Supply 'C'	PSU-1141-05X or PSU-1141-06X					Low voltage DC PSU Input: 24-48 Vdc, 3 A Output: 5 Vdc, 12 A	Y	Y	Y	Y
Power Supply 'M'	PSU-0141-18A					High voltage AC/DC PSU Input: 110-240 Vac 50/60 Hz; 0,8 A or	Y	Y	Y	Y

Details of major modules / components (as declared by the applicant) of the model under certification (BILL OF MATERIAL)										
Module Name/Atrtibute 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
						110-250 Vdc; 1 A Output: 5 Vdc; 8 A				

*** End of the certificate***