Grid Solutions

GRIDCOM E-DXC

Versatile Access and Transmission Platform

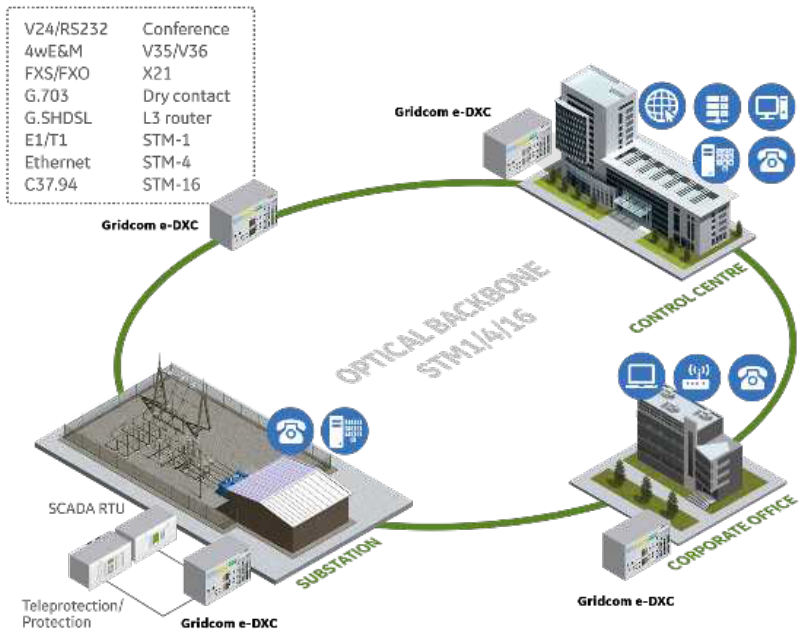
Reliable and fast communications are vital to the continuous operation of power delivery systems and their mission-critical automation services (protection, voice and data).

The modern high voltage electrical substation hosts many applications, including a great number of legacy interfaces, which in time may migrate to ethernet connectivity.

GE Vernova's enhanced digital cross-connect (**Gridcom e-DXC**) equipment provides the full set of capabilities required for the provision of predictable and flexible services through a robust communications platform allowing the integration of all existing applications - and the opportunity of a smooth migration to new networked environments such as IEC 61850 and TCP/IP SCADA.

Gridcom e-DXC belongs to GE Vernova's extensive range of interoperable power system telecommunications equipment. It is managed through a common network management platform.

Gridcom e-DXC provides enhanced capabilities on transmission and access layers and is based on the field proven e-terragridcom DXC platform extensively deployed across power networks worldwide.



Key Features

- Primary access and SDH transmission on one single platform
- Wide range of data, voice, Ethernet and optical interfaces
- Ethernet switching and IP routing functions available
- High level reliability via full redundancy
- Native SNMP standard management
- Field engineer oriented user interface and maintenance facilities
- Tested for harsh substation environments
- TDMoIP for multiplexing on native Gigabit ethernet

World Class Expertise

- **Gridcom e-DXC** brings an outstanding level of reliability and quality of service for access and transmission networks, ensuring fast, simple, robust and reliable installation and configuration
- Encompassing all the products and services for global solutions, GE Vernova's telecom offering provides complete peace of mind
- GE Vernova has 50 years of experience in designing, manufacturing and supplying a complete range of telecommunications equipment. Anywhere in the world, GE Vernova experts can provide a solution for any of telecom requirements, enabling its customers to focus on your core business

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INTERFACES, FEATURES, MANAGEMENT	
SDH tributary and aggregate interfaces	STM-1 and STM-4 SFP based standard SFP's Long Haul SFP's up to 240/200 km for STM1/4
PDH tributary interfaces	E1, E3
PCM interfaces	FXO, FXS, 2/4W E&MV24, V35/V36/X21,64K G.703 Dry contact I/O Data and voice conference bridge (PMP application) C37.94 optical interfaces for protection and teleprotection G.SHDSL FOM (4*E1 optical PDH)
Packet interfaces	10/100/1000 Mbps (electrical and optical)
Packet processing	Ethernet over SDH (EoS), Ethernet overPDH (EoPDH) TDMoIP Layer 2/3 switching, VLAN, RSTP, MSTP, QinQ, QoS
Power supply	48 Vdc -(36 to -72 Vdc)
Equipment protection	Power supply, controller, ethernet boards 1+1 protection E1: card, port, line protection
Network protection	STM 1/4: MSP/SNCP Ethernet: LCAS
Management	Centralised management (EMS/NMS) with full FCAPS services and end-to-end circuit management

OTHER SPECIFICATIONS	
Physical dimensions (mm)	433 (W) * 264 (H) * 223.5 (D)
Operating temperature	0 to 50°C (Integrated temperature controlled fan tray)
Operating humidity	0 - 95% RH (non-condensing)
Mounting	Desktop stackable, 19/23 inches rack mountable
Safety	IEC EN 60950-1
EM I/EMC	EN55022 Class A, EN50024 FCC Part 15 Class A
Power utility standards compliance	IEC 61850-3 / IEEE 1613

For more information, visit
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