

Data Sheet

FDX2460 Synchronous 10 Gigabit Ethernet Access Aggregation Switch

Low cost, small form factor solution for fibre access networks, including cabinet deployments

Overview

Fujitsu's FDX2460 is a wire speed non-blocking layer 2 switch with synchronisation and secure management. Providing a cost effective solution for Ethernet Aggregation in locations where space and power are limited, the FDX2460's ultra small (200 mm deep) form factor makes it ideal for deployment in the street cabinets used by Next Generation broadband access networks. Its support of Synchronous Ethernet also allows it to provide cost effective aggregation for LTE mobile backhaul. The FDX2460 supports 24 ports of synchronous 1 Gigabit Ethernet and 4 ports of synchronous 10 Gigabit Ethernet. This provides high bandwidth optical interconnect capability and low cost Gigabit Ethernet aggregation. The FDX2460 can also be deployed in a resilient configuration for high availability applications.

Blending Carrier and Enterprise Capabilities

A benefit of the FDX2460 is the blend of carrier Ethernet and Enterprise Ethernet features in a form factor that is cost optimised for access networks. This, combined with Fujitsu's long experience of broadband and fibre access delivery, provides carriers with a new powerful switching element on which to build new high bandwidth networks.

The FDX2460 can support a mix of provider bridging and point-to-point VLAN switching services, as well as consumer focused services such as multicast. This allows FDX2460 to provide cost effective aggregation for xDSL and point-to-point fibre deployments, whilst enabling connection and aggregation of business services at the cabinet.

In a mixed environment, this capability allows a service provider to take opportunities to reach high value business services over the same infrastructure they are using for residential customers.

A Wide Range of Access Applications

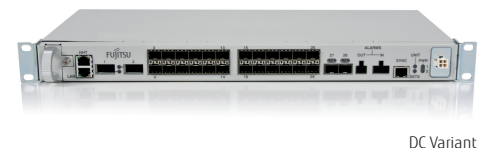
The FDX2460 can be deployed in a large variety of business and residential applications. It can support open cabinet architectures and modular cabinet deployments, as increasingly required by EU regulators. Its support of Synchronous Ethernet and IEEE 1588v2 packet timing makes it a suitable platform for 3G and LTE mobile backhaul deployments. The unit also supports timing interfaces which can provide timing to (or recover timing from) other elements within the cabinet or hostel. The FDX2460 also supports the Broadband Forum TR-101 features for broadband access nodes, including PPP intermediate agent and layer 2 DHCP relay. This, combined with its low power consumption and small form factor, makes it suitable for deployment within Multiple Dwelling Units (MDUs) as a fibre distribution switch.

Secure Management

The FDX2460 supports management by CLI and SNMP. Because security in the access network is important, it also supports authentication via RADIUS and secure management communications using SSH and SFTP.



AC Variant



DC Variant

Technical Details

Ports and Bandwidth	24 GE/FE ports (SFP) 2 10 GE ports (XFP) 2 10 GE ports (SFP+) - may be used for client interfaces or switch stacking Wire speed, non-blocking switching	Resilience Options	Spanning Tree, RSTP, PVSTP+, MSTP IEEE 802.1AX Link Aggregation in either load sharing or 1:1 protection configuration ITU-T G.8031/8032 (VLAN protection) Unit protection option (Active/Standby configuration using stacking ports)
Ethernet Bridging	VLAN bridging 802.1Q Provider bridging 802.1ad 16K MAC table entries Broadband Forum TR-101 N:1 VLANs MEF E-TREE and E-LAN services	Multicast	4K multicast groups IGMPv3 snooping and proxy reporting Layer 2 and Layer 3 multicast forwarding
Connection Oriented Ethernet	VLAN cross connect Single or double tagged VLAN cross connects Up to 512 connection oriented services Metro Ethernet Forum E-LINE services Broadband Forum TR-101 1:1 VLANs	Broadband Access Node	Layer 2/3/4 ACL support TR-101 PPPoE Intermediate Agent TR-101 Layer 2 DHCP relay IEEE 802.1X MAC authentication
Quality of Service	Port and VLAN .1p bits and DSCP classification Ingress and egress per EVC, per class, rate limiting MEF 10 support srTCM, trTCM Per class queuing (8 classes) SP/WFQ scheduling and per-class shaping Tail drop and WRED	Management	CLI/SNMPv3 Secure in-band management (SSH/SFTP) DHCP Client RADIUS Environmental alarm support Backup and restore
OAM	Port statistics and performance management EVC statistics IEEE 802.1ag CFM (CC, LB, LT) IEEE 802.3ah link-layer OAM ITU-T Y.1731 performance monitoring	Physical and Environmental	
Synchronisation	2 MHz input and output interfaces ITU-T G.8261/8262 (Synchronous Ethernet) ITU-T G.8265.1 (PTP telecom profile) IEEE 1588v2 (packet timing)	Dimensions (W x D x H)	448.5 x 200 x 41 mm
		Weight	3.8 kg
		Mounting	Horizontal and vertical
		Access	All front access for ease of deployment
		Power	DC or AC
		Power Consumption	70 W (max)
		Temperature Range	-40 to +65 °C
		Compliance	ETSI EN 300-019 Class 3.2/4.1/4.1H EMC ETS EN 300-386 EN 55022:2006+A1:2007 CE mark ROHS6 WEEE

Contact

FUJITSU TELECOMMUNICATIONS EUROPE LIMITED
Solihull Parkway, Birmingham Business Park, Birmingham, B37 7YU. UK
Tel: +44 (0) 121 717 6000
E-mail: telecommunications@uk.fujitsu.com

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uk.fujitsu.com

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