

ETX-2i (1G devices)

IP and Carrier Ethernet Demarcation with D-NFV



- Feature-rich demarcation and aggregation suite, offering a complete Service Assured Access (SAA) solution, line rate Layer-3 services, and vCPE applications
- Ideal for service providers, wholesalers, and mobile operators, seeking to deliver and monitor SLA-based MEF-certified CE 2.0, Layer-3 VPN, and TDM over PSN
- Versatile offering of Ethernet over fiber, SHDSL, VDSL, GPON, PDH, and TDM, assuring unified service delivery over any access technology
- TWAMP and Layer-2 OAM, diagnostics for scalable and accurate traffic monitoring, quick fault detection, and troubleshooting of Layer-2 and Layer-3 networks

FLEXIBLE SERVICE DELIVERY AND ASSURANCE AT 1G

The ETX-2i IP and Carrier Ethernet Demarcation with D-NFV device is the main component of RAD's Service Assured Access solution, providing:

- Ethernet service uniformity over multiple access technologies including GbE, SHDSL, VDSL, PDH, and SONET/SDH
- Operation in diverse topologies including ring, daisy chain, and hub and spoke
- PW functionality for mobile backhauling and business services
- Synchronization for mobile 2G, 3G, LTE, and LTE-A backhauling networks
- Network Function Virtualization (NFV) for vCPE solutions

ETX-2i is offered in a variety of product options: ETX-2i, ETX-2i-B, ETX-2i-10G, and ETX-2i-100G. (Details on ETX-2i 10G devices and ETX-2i 100G devices can be found in dedicated data sheets.)

ETX-2i is a next-generation hybrid L2 and L3 demarcation device. The ETX-2i-B branch office device is an optimized access box adapted to the requirements of next-generation vCPE networks.

The tables below provide further information on the capabilities offered by the ETX-2i and ETX-2i-B devices.

MARKET SEGMENTS AND APPLICATIONS

ETX-2i is ideal for carriers, service providers, municipalities, wholesale providers, and mobile operators seeking to offer unified SLA-based Ethernet business services, such as E-Line, E-LAN, E-Tree, and E-Access, as well as L3 VPNs and value-added services using virtualization at the customer edge.

INTEROPERABILITY

The ETX-2i family features and services are standard based and can work with any 3rd party equipment using standard based features and services.

NETWORK TOPOLOGIES

ETX-2i supports several network topologies such as linear, daisy chain, and self-healing rings (G.8032v2), working with ETX-5 or third-party Ethernet devices.

CARRIER ETHERNET 2.0 SERVICES

ETX-2i incorporates a complete set of CE 2.0-certified Ethernet service tools that allow service providers to distinguish between high- and low-priority traffic and optimize TCP sessions.

ETX-2i provides MEF 10.3 color aware and unaware Policers, delivering high-scale multi-CoS services with hierarchical Quality of Service (HQoS).

It supports advanced scheduling, WRED per CoS, shaping per EVC, with flexible classification rules and access lists.

DHCP Snooping

ETX-2i supports DHCP Snooping with Option 82 for protection of DHCP transactions.

Layer-2 Control Processing

ETX-2i can be configured to forward or discard Layer-2 control frames (including other vendors' L2CP frames).

MEF Services

ETX-2i delivers E-Line (EVL, EVPL), E-LAN (EPLAN, EVPLAN), E-Tree (EP-TREE, EVP-TREE), and E-Access services compliant with MEF 3.0 and CE 2.0 certifications.

MLDv2 Snooping

With MLDv2 snooping, multicast data is selectively forwarded only to a list of self-learned ports (per multicast group membership), instead of being flooded to all ports in a VLAN.



VCPE

ETX-2i and ETX-2i-B leverage Network Functions Virtualization (NFV), allowing carriers to provide a vCPE solution in various models, including Centralized and Decentralized architectures. This solution reduces CAPEX and OPEX by eliminating the physical appliance required for hosting network functions.

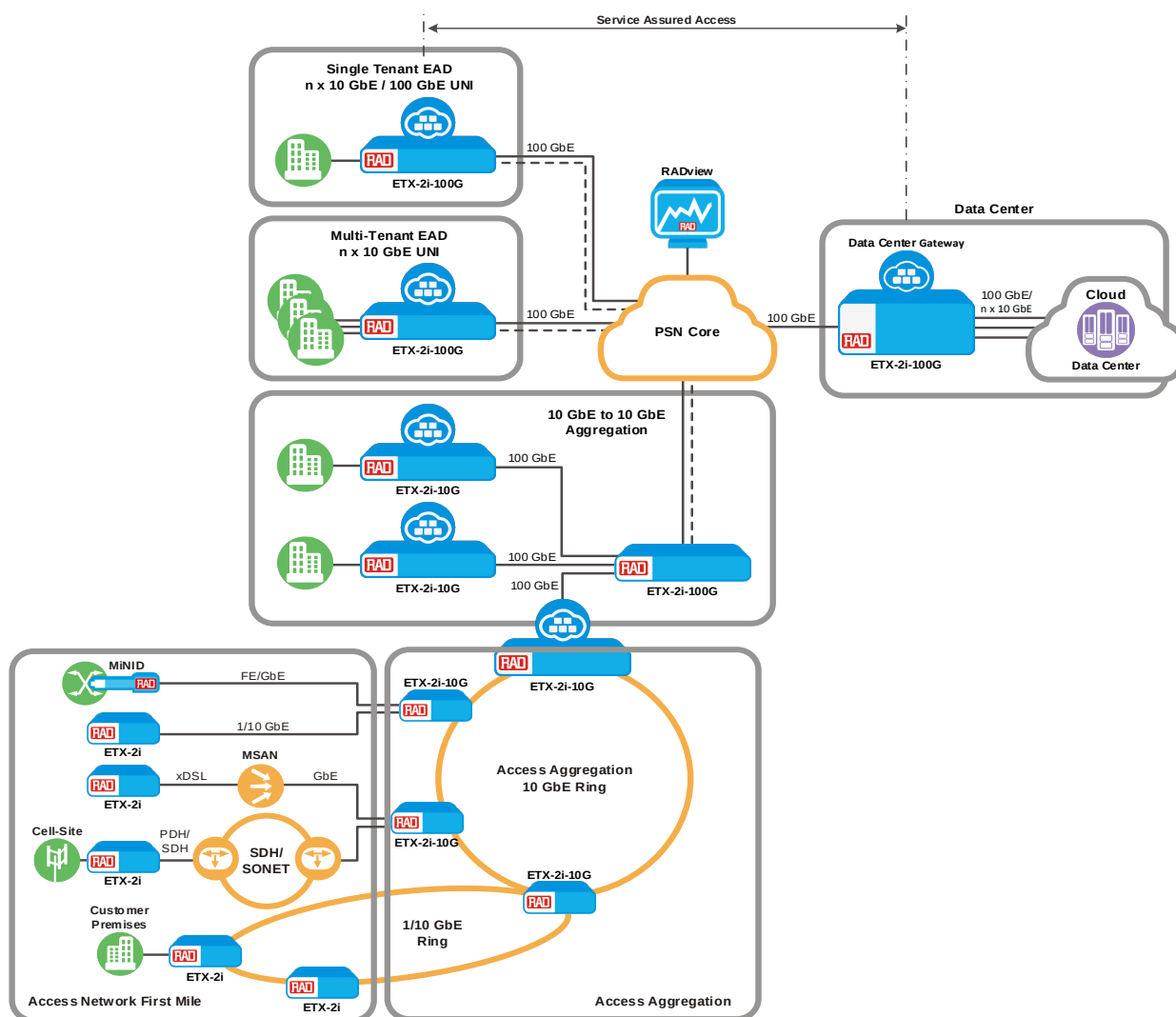
The D-NFV options allow for seamless insertion of x86 cards as optional modules. The D-NFV module hosts virtual machines providing virtual network functions (VFs) or value-added service capabilities. This enables service providers to quickly and easily provide new services and implement new network capabilities, with the benefit of function localization at the customer premises.

ROUTING

ETX-2i and ETX-2i-B models with enabled routing offer Virtual Routing and Forwarding (VRF) instances, allowing service providers to deploy Layer-2 and Layer-3 VPNs. The forwarding engine capability ranges from 1 to 8 Gbps, allowing Carrier Ethernet and IP services to be offered in a single device providing high-capacity performance monitoring, network function virtualization (NFV), and more.

ETHERNET OVER IP/GRE

ETX-2i and ETX-2i-B models with enabled routing offer Ethernet over IP/GRE tunneling, allowing service providers to extend Layer-2 services to out of footprint sites over IP transport.



Access Aggregation with SLA-Based Services

SDN READY MANAGEMENT

ETX-2i can be managed via RADview, RAD's carrier-class NMS, or any SNMP-based management system. The device supports a variety of access protocols, including CLI over Telnet, SNMPv3, and TFTP.

Security features include SNMPv3, RADIUS (client authentication), TACACS+ (client authentication, authorization, and accounting), SSH, and SFTP.

Access Control Lists (ACL) can also be used to flexibly filter and mark management traffic, enabling service providers to maintain network security by dropping unwanted packets.

NETCONF/YANG

XML-based network configuration protocol NETCONF is supported and provides an easy interface for NFV/SDN orchestrators to install, manipulate, and delete the configuration of ETX-2i.

Zero Touch

ETX-2i implements RAD's unique ZT process, allowing devices to onboard automatically and securely without human intervention and enabling operators to provision services easily and reliably.

TDM PSEUDOWIRE

ETX-2i 64E1 and ETX-2i/ETX-2i-B with smart SFP (MiTOP) provide pseudowire (PWE) services. The PWs can be encapsulated using CESoPSN per IETF RFC 5086 or SAToP per IETF RFC 4553.

ETHERNET OVER PDH

ETX-2i provides Ethernet over PDH (EoPDH) services via a smart SFP (RAD's MiRICi), including the following NG-PDH technologies:

- Generic Framing Procedure (GFP G.7041)
- GFP or PDH (G.8040)
- PDH Virtual Concatenation (VCAT G.7043)
- Link Capacity Adjustment Scheme (VCAT G.7042).

NG-PDH solutions improve overall network availability by reducing latency and optimizing line utilization and throughput.

Integrated management of MiRICi smart SFPs provides TDM (E1/T1/E3/T3/OC-3/STM-1) connectivity over PDH or SDH legacy networks.

RESILIENCY

ETX-2i offers fast protection for virtually any kind of failure, in any linear, ring, or dual-homed topology. The device employs IEEE 802.3ad link aggregation (1:1 LAG), ITU-T G.8032v2 Ethernet ring protection, and ITU-T G.8031 Ethernet linear protection, to ensure continuous availability and sub-50 ms restoration in the event of network outages.

It also provides MSTP and RSTP (IEEE 802.1Q) to support loop-free bridge forwarding over mesh or ring physical topology.

Table 1. Interfaces

Specifications	ETX-2i Fixed Ports 	ETX-2i 64E1 	ETX-2i/M & D-NFV 	ETX-2i-B 	ETX-2i-B D-NFV 
FE/GbE SFP	8 SFP/UTP combo	6 SFP/UTP combo	4 (2 additional with GbE module) SFP/UTP combo	4, 6 or 10 SFP/UTP combo Port 1 SFP only	6 SFP (Ports 1 and 2)/copper (Ports 3 to 6) RJ-45
Network interface module	—	—	+	—	—
D-NFV	—	—	19V ordering option	V ordering option	+
E1/T1/T3	—	64 TDM PW E1/T1 ports	4/8 EoPDH E1/T1 network ports	—	—
Router (embedded)	+ (8G)	+ (8G)	+ (8G)	+ (4G)	+(4G)
SHDSL module	—	—	+	—	—
VDSL2 module	—	—	+	—	—
E1/T1/T3/STM-1/OC3 EoPDH	Via integrated Smart SFP (MiRIC)				
E1/T1/T3 PW services	Via integrated Smart SFP (MiTOP)				
Timing	2 MHz, 2 Mbps, 1PPS, ToD	—	2 MHz, 2 Mbps, 1PPS, ToD (excluding D-NFV option)	2 MHz, 2 Mbps, 1PPS, ToD	—

Note: It is strongly recommended to order this device with original RAD SFP/XFP transceivers. RAD cannot guarantee full compliance to product specifications for units using non-RAD transceivers. For full details on SFP/XFP transceivers, see the [Pluggable Transceivers data sheet](#).

TIMING AND SYNCHRONIZATION

ETX-2i incorporates RAD's advanced SyncTop synchronization and timing over the packet feature set to support mobile heterogeneous network topology.

Synchronous Ethernet (SyncE) with IEEE 1588v2 Precision Time Protocol per ITU-T G.8265.1, G.8275.1, and G.8275.2 telecom profiles provide cost-effective synchronization of frequency and phase. ETX-2i also supports ordinary clock (OC), boundary clock (BC), and transparent clock (TC), as well as a dual master operating simultaneously in G.8265.1 and G.8275.1 modes. ETX-2i utilizes the best master clock algorithm (BMCA) to select the best clock from the ports that are provisioned as slave.

MONITORING AND DIAGNOSTICS

Featuring multi-layer OAM and PM tools, ETX-2i offers hardware-based monitoring and diagnostics at high scale and precision. End-to-end connectivity OAM (IEEE 802.1ag), as well as single-segment OAM (IEEE 802.3-2005), ensure flow-level fault management and performance monitoring over Layer-2 networks and also quickly detect connectivity failures for robust protection.

Layer-2 and 3 wirespeed loopbacks offer flexible diagnostic tools. RFC-5357 TWAMP Light delivers the same functionality over Layer-3 networks, as well as one-way TWAMP and two-way ICMP Echo, with counters for loss, delay, fragmented packets, reorders, and duplication, in addition to configurable test packet size. Multi-VRF supports the robust TWAMP setup.

The Performance Management Portal is an SLA assurance system that is part of the RADview management system, enabling real-time monitoring of service performance.

Digital Diagnostics Monitoring

ETX-2i supports digital diagnostics monitoring (DDM) SFP functions according to SFF-8472, excluding external DDM calibration.

Service Activation Tests

The ETX-2i family offers service activation tools with multiple RFC-2544, Y.1564, and L3 SAT testers.

VIRTUALIZATION ARCHITECTURE

The ETX-2i and ETX-2i-B D-NFV options are provided with RAD's vCPE-OS software platform on their D-NFV modules.

D-NFV module is a Linux based, carrier-class operating system for vCPE applications, with open management interfaces. vCPE-OS runs on any white box server and can be preloaded in RAD's virtual CPE (vCPE) platforms. It combines powerful networking capabilities with virtualization for hosting SD-WAN and any other value-added virtual network function (VNF) applications from multiple vendors.

For more information on vCPE-OS, please refer to the vCPE-OS datasheet.

Table 2. Timing and Synchronization

Specifications	ETX-2i Fixed Ports 	ETX-2i 64E1 	ETX-2i/M & D-NFV 	ETX-2i-B 	ETX-2i-B D-NFV 
Best Master Clock Algorithm (BMCA)	+	+	+		-
IEEE-1588v2 precision time protocol (PTP) per G.8265.1, G.8275.1, and G.8275.2 Telecom profiles	OC, TC, BC Slave clock	TC	OC, TC, BC Slave clock (excluding D-NFV option)		TC
PTP ports	ToD/1PPS (RJ-45), External clock (CONN.COAX SMA), 1PPS (CONN.COAX SMA), 2M (SMA)	-	ToD/1PPS (RJ-45), External clock (CONN.COAX SMA), 1PPS (CONN.COAX SMA), 2M (SMA) (excluding D-NFV option)		-
Station clock	Balanced E1, unbalanced E1 (via adapter cable); RJ-45 connector	-	Balanced E1, unbalanced E1 (via adapter cable); RJ-45 connector (excluding D-NFV option)		-
SyncE recovery from PDH module to Ethernet ports	+	-	+ (excluding D-NFV option)		-
Synchronous Ethernet (SyncE), eSYNCE	ITU-T G.8261-G.8264	-	ITU-T G.8261-G.8264 (excluding D-NFV option)		-

Specifications

E1/T1 INTERFACES (TDM PSEUDOWIRE)

(ETX-2i 64E1 with built-in TDM PWE E1/T1 ports)

Number of Ports	64
Compliance	E1: G.703 T1: ANSI T1.101, ANSI T1.403
Data Rate	E1: 2.048 Mbps T1: 1.544 Mbps
Line Coding	E1: HDB3 T1: B8ZS
Framing	E1: Framed (G.732N with or without CRC) Framed with CAS (G.732S with or without CRC) Unframed T1: Unframed or ESF
Impedance	E1: 120Ω, balanced 75Ω, unbalanced (via adapter cable) T1: 100Ω, balanced
Connectors	Electrical, RJ-45
Payload Encapsulation	CESoPSN, SAToP
Network Encapsulation	MEF 8, UDP/IP

ENVIRONMENTAL

Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	Regular: 0 to 50°C (32 to 122°F): ETX-2i -5 to 55°C (23 to 131°F): ETX-2i-B Temperature hardened: -40 to 65°C (-40 to 149°F): ETX-2i -20 to 65°C (-4 to 149°F): ETX-2i-B w/ 10 ports (2U) A single SFP-30H is supported at temperature up to 62°C.
Humidity	5% to 90%, non-condensing

PHYSICAL

8.5-inch Enclosures	Height: 43.7 mm (1.7 in) ETX-2i-B 2U: 88.2 mm (3.5 in) Width: ETX-2i - 215.5 mm (8.5 in) ETX-2i-B - 220 mm (8.7 in) Depth: ETX-2i - 300 mm (11.8 in) ETX-2i-B - 170 mm (6.7 in) ETX-2i-B/D-NFV - 280 mm (11 in) Weight: ETX-2i/M - 2.16 kg (4.76 lb) maximum M (module): 0.91 kg (2.01 lb) ETX-2i-B 1U - 0.7 kg (1.54 lb) ETX-2i-B 2U - 1.34 kg (2.95 lb) ETX-2i-B/DNFV - 2.01 kg (4.4 lb) (Module: 0.91 kg (2.01 lb))
19-inch Enclosures	Height: All devices except ETX-2i 64E1 - 43.7 mm (1.7 in) ETX-2i 64E1 - 132.7 mm (5.2 in) Width: 440 mm (17.4 in) Depth: 240 mm (9.5 in) ETX-2i/M - 300 mm (11.8 in) ETX-2i/D-NFV - 350 mm (13.78 in) Weight: ETX-2i Fixed Ports - 3.6 kg (7.9 lb) maximum ETX-2i 64E1 - 7.15 kg (15.87 lb) maximum ETX-2i/M module: 0.91 kg (2.01 lb)

RESILIENCY

Dual Homing	Dual homed link redundancy
Ethernet Path Protection	G.8031 linear 1:1 protection
Ethernet Ring	G.8032v2 rings with sub 50 ms protection for Ethernet traffic
Link Aggregation	IEEE 802.1ax (802.3ad) 1:1 LAG with LACP for pairs of network or user Ethernet ports LAG with load balancing

Table 3. Power

Specifications	ETX-2i Fixed Ports	ETX-2i 64E1	ETX-2i/M & D-NFV	ETX-2i-B	ETX-2i-B D-NFV
Power Supply	AC: 100-240 VAC (-10%, +6%), 50/60 Hz, 0.9A DC: 48 VDC (40-60 VDC), 2A ETX-2i, ETX-2i-B 8.5" - Dual DC feed ETX-2i-B - Wide-range AC/DC with auto detection				
Power Supply Redundancy	+	+	+	+	-
Power Consumption	Non-modular product base (8 GbE): 35W max	AC PS: 74W max; DC PS: 60W max	Modular base: 30W Modular uplink: 5W max VDSL: 10W max D-NFV: 30W	23W	30W

IP ADDRESSING AND ROUTING

Addressing	IPv4 and IPv6
Rate	ETX-2i-B: Up to 4 Gbps ETX-2i: Up to 8 Gbps
Routing Protocols	Dynamic routing: OSPFv2, BGPv4, VRRPv2, and VRRPv3 Static routing Bidirectional forwarding detection (IP-BFD single hop) for fast path failure detection and fast route propagation Ethernet over IP/GRE tunneling
Routing Technologies	Static Policy-based VRF (10), RIF (32)
NAT	Static/dynamic NAPT/NAT
DHCP	Client, server, relay IP helper addresses
DNS	Server

NETWORKING CAPABILITIES

Services	Ethernet E-LAN, E-Tree, E-Access MEF CE2.0 compliant Layer-2 services with available bandwidth
Layer-2 Forwarding	Jumbo frame support
Flow Classification Rules	Outer VLAN or outer + inner VLAN PCP TOS/DSCP EtherType IP/MAC source/destination address
Port Classification	Per port 5-tuple ACL
Policing	Color aware/unaware dual token bucket with user-configurable CIR + CBS and EIR + EBS 2-rate/3-color policing per EVC.CoS Bandwidth policing per MEF 10.3 Hierarchical envelope policer per MEF 10.3 MultiCoS EVCs per MEF 10.3
Scheduling	8 × CoS per EVC scheduling elements Strict Priority (SP) Weighted Fair Queue (WFQ)
Shaping	Per EVC Per EVC.CoS

DIAGNOSTICS

Alarm Relay (optional)	Type: Dry contacts with three “in” Connector: Terminal block, 9-pin
Connectivity Fault Management (CFM)	Per IEEE 802.1ag
EFM Link-fault OAM	IEEE 802.3ah
Link-level OAM	Per IEEE 802.3-2005
Counters	RMON2 port-level counters
Delay and Loss Measurements	Per MEF 36
ICMP Echo	Over L2 and L3 services Tests IP connectivity (PING)
KPI Measurements	Accurate one-way KPI measurements
Limiting Multicast Traffic Flooding	DHCP and MLDv2 snooping
Loop Prevention	Using MSTP and RSTP
Loopback Tests	Non-disruptive loopback per flow, with MAC/IP address swap Loopbacks at Ethernet port level On-demand Layer-2 and 3 loopbacks
LLDP Discovery	Per IEEE 802.1AB
Service Activation Tests	RFC-2544: Eight built-in wirespeed testers ITU-T Y.1564: Eight built-in wirespeed testers
Service Utilization and Performance Monitoring	Per ITU-T Y.1731.2012, including synthetic loss measurement
TWAMP	RFC 5357 TWAMP light generator and responder (SW license) ITU-T Y.1731 PM (SLM; DM) RFC 5618 TWAMP responder and receiver TWAMP sender PM Controller (PMC)

GENERAL

Compliance	MEF 3.0 CE 2.0 MEF 6 (E-Line – EPL and EVPL, E-LAN – EPLAN and EVPLAN) MEF 9, MEF 10, MEF 14, MEF 20, MEF 36, MEF 46 IEEE 802.3, 802.3u, 802.1D, 802.1Q, 802.1p, 802.3ad, 802.3-2005, 802.1ax, 802.1ag ITU-T Y.1731, G.8031, G.8032v2, G.8262, G.8265, RFC-2544, ITU-T Y.1564
Push Buttons	FD push button for setting unit to default configuration

IP and Carrier Ethernet Demarcation with D-NFV

BRIDGE

Max. Frame Size	9600 bytes
Compliance	802.1D, 802.1Q, 802.1ad
Mode	VLAN-aware, VLAN-unaware
VLAN Editing	Inner/outer VLAN editing per VLAN and p-bit values

MANAGEMENT AND SECURITY

Management Options	Local management via LAN port or serial port Remote management via in-band VLAN
Protocols and Security	SSH (Secure CLI) Telnet SNMPv3 SFTP NETCONF/YANG management interface Password-protected access Authorization levels RADIUS or TACACS+ authentication Dual Stack IPv4 and IPv6 routing IP forwarding Static routing Access Control List (ACL)
Large Deployments	Plug and play zero touch provisioning (DHCP, PPPoE, XML configuration files download via TFTP/SCP) Configuration backup and restore

Control Port

Interface	V.24/RS-232 DCE
Connector	Mini-USB
Format	Asynchronous
Data rate	9.6, 19.2, or 115.2 kbps

Ethernet Management Port

Type	10/100/1000BASE-T
Connector	RJ-45

ETX-2i

IP and Carrier Ethernet Demarcation with D-NFV

Ordering

<product>/?/@/\$/#/+/&/~/%

?	Temperature Range
	Regular
H	Temperature hardened
HN	NEBS compliant, temperature-hardened
N	NEBS compliant
@	Power Supply
AC	AC power supply
ACDC	Dual AC and DC power supplies
DCHP	High power DC power supply for D-NFV and non D-NFV
ACHP	High power AC power supply for D-NFV
ACR	Dual AC power supply
DC	DC power supply
DCR	Dual DC power supply
DDC	Dual DC feed power supply
WR	Wide range
\$	Enclosure size (inches)/Modular
19"	19" 1U metal box (ETX-2i)
M	8.5" modular uplink (ETX-2i)
V	8.5" with D-NFV module slot (ETX-2i-B)
19V	19" with D-NFV module slot (ETX-2i)
+	64E1T1 64 E1/T1 ports (ETX-2i)
	DRC 2 IN dry contacts
~	Timing Options
SYE	SyncE
PTP	1588v2 timing and SyncE

RECOMMENDED CONFIGURATIONS

Note: For temperature-hardened options, use SFPs with maximum operating temperature 85°C (185°F).

ETX-2i

ETX-2i/AC/19

ETX-2i/AC/M

ETX-2i/DDC/M/PTP

ETX-2i/H/AC/19/PTP

ETX-2i/H/ACR/19/PTP

ETX-2i/HN/AC/19/PTP

ETX-2i/N/ACHP/19V

ETX-2i/H/AC/M/VDLSL8W/POTS

ETX-2i/H/AC/M/VDLSL8W/ISDN

ETX-2i/DC/19/64E1T1/SYE

ETX-DNFV-M/?/*/&/^

D-NFV modules based on Xeon D (for ETX-2i)

?	Intel® processor name and # cores
X4C	Xeon D with 4 Cores
X8C	Xeon D with 8 Cores
*	SSD Solid state drive rate
128S	128 GB
256S	256 GB
^	RAM
16R	16 GB RAM
24R	24 GB RAM

ETX-DNFV-M/X4C/128S/16R

ETX-DNFV-M/X8C/256S/24R

ETX-M/?/^

Ethernet network uplink module

?	Uplink module ports (Default = no uplink module)
2ETH	Eth uplink module with 2 combo ports

ETX-M/2ETH

Note: Any ETX-2i with D-NFV option must be ordered together with a RADcare Package and RADcare Project Assurance Package.

ETX-2i-B

ETX-2i-B/WR/2SFP/2CMB

ETX-2i-B/WR/2SFP/2CMB/DRC

ETX-2i-B/WR/2SFP/4UTP

ETX-2i-B/H/WR/2SFP/8SFP

Note: Although this device option has ten active ports, processing capability is limited to six GbE.

ETX-2i-B/AC/V/2SFP/4UTP

ETX-2i-B/DDC/V/2SFP/4UTP

ETX-DNFV-M/?/*/&/^

D-NFV modules based on Intel® Atom Rangeley (for ETX-2i-B)

?	Intel® Atom Rangeley model processor name and # cores
R4C	C2558 4-core
R8C	C2758 8-core
BLNK	Blank
*	SSD Solid state drive rate
128S	128 GB
^	RAM
8R	8 GB RAM
16R	16 GB RAM
\$	Acceleration
ACC	DPDK acceleration

ETX-DNFV-M/R4C/128S/8R

ETX-DNFV-M/R4C/128S/8R/ACC

ETX-DNFV-M/R8C/128S/8R

ETX-DNFV-M/R8C/128S/8R/ACC

ETX-DNFV-M/R8C/128S/16R

ETX-DNFV-M/R8C/128S/16R/ACC

ETX-DNFV-M/BLNK

SPECIAL CONFIGURATIONS

Please contact your local RAD partner for additional configuration options

SUPPLIED ACCESSORIES

AC power cord (with AC models)

DC connector kit PLUG-DC/TB-S/J (for ETX-2i DC models)

DC connector kit PLUG-DC-MC1/BS for ETX-2i-B DC DNFV option

See the [Mounting Kits](#) table.

OPTIONAL ACCESSORIES

CBL-MUSB-DB9F

Mini USB cable to connect device to a serial port

ETX-2i-PS/!/^

Extractable power supply for ETX-2i/64E1

!	Power supply	
AC		Single AC power supply
DC		Single DC power supply
ACHP		Single high power AC power supply
^	E1 ports (Default = no E1 ports)	
64		ETX-2i-64E1

ETX-2i-PS/DC/64

DC PS, 64E1T1 device

ETX-2i-PS/AC/64

100-240 VAC, 64E1T1 device

ETX-2i-PS/ACHP

High-power AC power supply for ETX-2i/DNFV

SFP-GPON-1DH

GPON optical network terminal SFP

See the [Mounting Kits](#) table.

Table 4. Mounting Kits

Product	19" Rack	Wall
ETX-2i (8.5")	RM-35/P1 – one unit RM-35/P2 – two units	WM-35
ETX-2i (19")	RM-34 (supplied) – one unit	WM-34
ETX-2i-64E1 (19" 3U)	RM-52 (supplied) – one unit without cable management CM-52 – one unit with cable management	-
ETX-2i-DNFV (19")	RM-34 (supplied) – one unit	-
ETX-2i-B (8.5")	RM-35/P1 – one unit RM-35/P2 – two units	WM-35-TYPE4
ETX-2i-B 2U (8.5" 2U)	RM-54/A – one unit RM-54/A2 – two units	-
ETX-2i-B-DNFV (8.5")	RM-35/P1 – one unit RM-35/P2 – two units	WM-35

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