General Availability

Megaplex-4

MS-UB

Multiservice Virtualization Platform

- X.86 server module

- Easy installation of customer software on x.86 server

- Integration into Megaplex-4 system

Part of the Megaplex-4 Multiservice Modules family, MS-UB adds virtualization capabilities to Megaplex-4, enabling users to install any SW running on Linux release (for example, hypervisor or various VNFs) running on an x.86 server card. Users may develop and release their own customized functions embedded in the Megaplex-4 system.

Customer software installed on the MS-UB module benefits from interfaces and services provided by Megaplex-4, which can interconnect to MS-UB over its Ethernet backplane.

The module has two ordering options differing in the x86 processor type and Ethernet 1 GbE port offering.

The module occupies two module slots in the Megaplex-4 chassis.

MARKET SEGMENTS AND APPLICATIONS

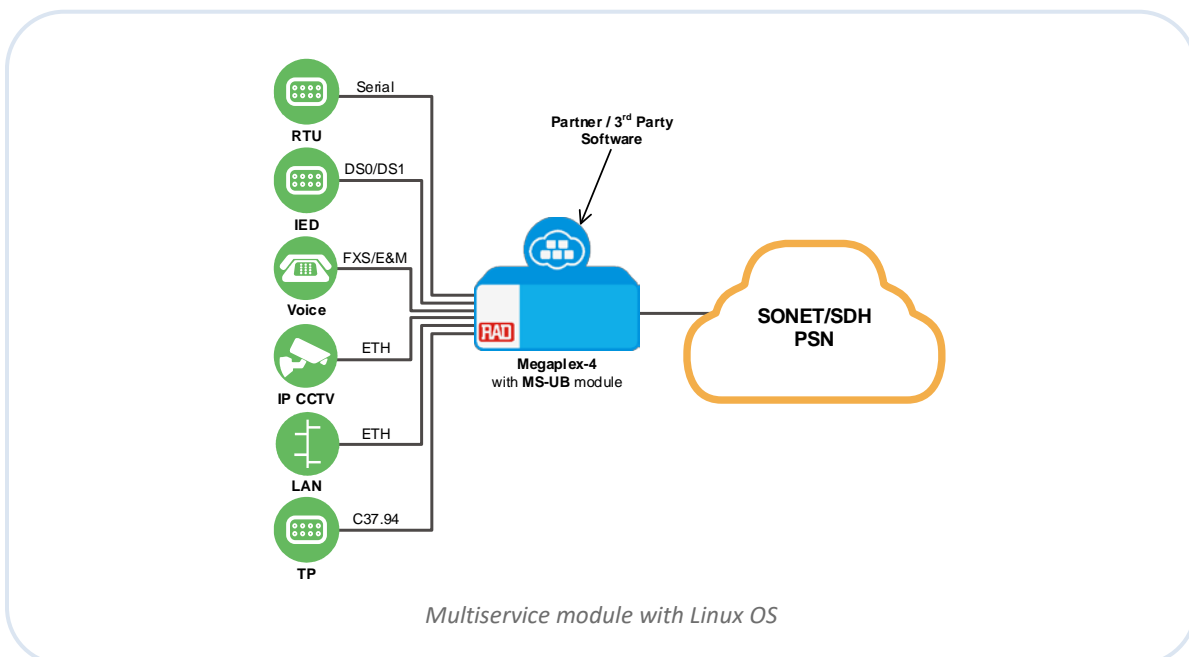MS-UB addresses multiple verticals, such as power utilities or military applications.

OPEN X.86 PLATFORM

The x.86 server card is delivered with an Ubuntu OS and the users can install their application on this Linux distribution.

Alternatively, users can install any other image (Linux distribution, application or virtual machine).

MANAGEMENT AND SECURITY

Customers can also install their own management interface which can be CLI, web or other. The exact management capabilities are defined based on the customer application. Using RADview with Megaplex-4, customers can create services on regular (non-MS) Megaplex modules.

Multiservice module with Linux OS

Specifications

X.86 SYSTEM

Processor	R2C: Intel Atom® Processor C2358 @1.7 GHz
	X8C: Intel XEON-D 8 Cores D-1537 @1.7GHz
RAM	R2C: 4 GB
	X8C: 16 GB
Hard Drive	128 GB, SSD-based storage

ETHERNET INTERFACE

Number of Ports	1
Type	1000Base-FX
Connector	SFP socket
Maximum Frame Size	9600 bytes
SFP Transceivers	SFP5/5D, SFP6/6D, SFP7/7D, SFP8/8D

USB PORT

Type	USB2
Max Feeding Power	2.5W
Voltage	5 VDC
Max current	0.5A

MANAGEMENT

Control Port	RS-232, UART interface
	RJ-45 connector
	115200 bps

DIAGNOSTICS

LED Indicators	RDY (green): The module is up and running
	LINK (green) – for GbE port of X8C option:
	• On: the port is connected to an active Ethernet hub or switch
	• Off: Ethernet link is not detected
	ACT (yellow) – for GbE port of X8C option:
	• On or Blinking (in accordance with the traffic): ETH frames are received or transmitted
	• Off: ETH frames are not received and transmitted

GENERAL

Linux OS	Linux Ubuntu distribution version 16.04.3 LTS

Environment

Operating Temperature	-10°C to 55°C (14°F to 131°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	Humidity: up to 95%, non-condensing

Power

Power Consumption	35W max (at CPU operating frequency of 1.7GHz)

Ordering

MP-4100M-MS/UB/R2C

Megaplex-4 multiservice virtualization module, Intel Rangeley ATOM 2-core processor

MP-4100M-MS/UB/X8C

Megaplex-4 multiservice virtualization module, Xeon D 8-core processor

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