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Agenda

- SkyEdge II VSATs Types
- SE II VSAT IP Platform Highlights
- SE II VSAT Extend Platform Highlights
- SE II VSAT WebEnhance Platform Highlights
- SE II VSAT Accent Platform Highlights
- SE II VSAT Access Platform Highlights
- SE II VSAT Pro Platform Highlights
- SE II VSAT Software Packages

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SkyEdge II VSAT IP

Platform Highlights



SkyEdge II IP

- **Miniature Desktop**
- **CPU:** PowerQUICC 1 processor core 133 MHz
- **Supported Topology:** Star
- **Memory:** Flash 16 MB, DDR2 64 MB
- **Services**
 - Up to 7 concurrent voice sessions
 - Up to 2 concurrent video sessions
 - Up to 2 VLANs supported
 - Up to 512 TCP connections
 - Up to 2 concurrent accelerated HTTP workstations
- **Power Supply**
 - Power Supply (AC): External, 90 - 240V
 - Power Supply (DC): External Power Box 10 - 60V
 - Software controlled 10MHz reference signal to BUC

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SkyEdge II VSAT IP

Platform Highlights

- **IB Channel Rate**
 - 128 to 1536 Kbps channel rate
- **Maximal Rate**
 - Uplink: 2.6 Mbps uplink (IB TCP throughput)
 - Downlink: 7.5 Mbps (OB TCP throughput)
- **Physical Interfaces**
 - RF RX + TX: 75ohm F-type
 - LAN: 1 x 10/100 auto-cross, auto-negotiation, half-duplex RJ-45
 - Serial console: RS-232 RJ-45 connector, Cisco pin-out
- **5 LED indications**
 - Power, RX (OB signal acquisition), SYNC (network timing acquisition), On-line (connected to network) and TX



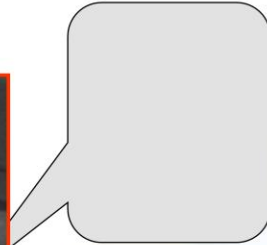
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SkyEdge II IP

Front Panel LEDs

- Power
- Rx
- SYNC
- On-LINE
- Tx



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SkyEdge II VSAT Extend

Platform Highlights



SkyEdge II Extend

- **Desktop**
- **CPU:** PowerQUICC 1 processor core 133 MHz
- **Supported Topology:** Star
- **Memory:** Flash 16 MB, DDR2 64 MB
- **Services**
 - Up to 7 concurrent voice sessions
 - Up to 2 concurrent video sessions
 - Up to 2 VLANs supported
 - Up to 512 TCP connections
 - Up to 2 concurrent accelerated HTTP workstations
- **Power Supply**
 - Power Supply (AC): External, 90 - 240V
 - Power Supply (DC): External Power Box 10 - 60V
 - Software controlled 10MHz reference signal to BUC

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SkyEdge II VSAT Extend

Platform Highlights



- **IB Channel Rate**
 - 128 to 1536 Ksps channel rate
- **Maximal Rate**
 - Uplink: 2.6 Mbps uplink (IB TCP throughput)
 - Downlink: 7.5 Mbps (OB TCP throughput)
- **Physical Interfaces**
 - RF RX + TX: 75ohm F-type
 - LAN: 2 x 10/100 auto-cross, auto-negotiation, full-duplex RJ-45
 - Serial console: RS-232 RJ-45 connector, Cisco pin-out
- **5 LED indications**
 - Power, RX (OB signal acquisition), SYNC (network timing acquisition), On-line (connected to network) and TX

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SkyEdge II VSAT WebEnhance

Platform Highlights

- **Desktop**
- **Supports SD card storage of up to 32GB**
- **CPU:** PowerQUICC II Pro processor core 667 MHz
- **Supported Topology:** Star
- **Memory:** Flash 16 MB, DDR2 128 MB
- **Services**
 - Up to 30 concurrent voice sessions
 - Up to 2 concurrent video sessions
 - Up to 8 VLANs supported
 - Up to 2048 TCP connections
 - Up to 8 concurrent accelerated HTTP workstations
- **Power Supply**
 - Power Supply (AC): External, 90 - 240V
 - Power Supply (DC): External Power Box 10 - 60V
 - Software controlled 10MHz reference signal to BUC



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SkyEdge II VSAT WebEnhance

Platform Highlights

- **IB Channel Rate**
 - 128 to 2560 Kbps channel rate
- **Maximal Rate**
 - Uplink: 4.4 Mbps uplink (IB TCP throughput)
 - Downlink: 25 Mbps (OB TCP throughput)
- **Physical Interfaces**
 - RF RX + TX: 75ohm F-type
 - LAN: 2 x 10/100 auto-cross, auto-negotiation, full-duplex RJ-45
 - Serial console: RS-232 RJ-45 connector, Cisco pin-out
 - μ SD slot
- **5 LED indications**
 - Power, RX (OB signal acquisition), SYNC (network timing acquisition), On-line (connected to network) and TX



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SkyEdge II VSAT Accent

Platform Highlights



- **1U 19" rack-mounted**
- **SCPC / TDMA Dual Waveform VSAT**
- **Includes a μ SD slot for CacheMode support**
- **CPU:** PowerQUICC II Pro processor core 800 MHz
- **Supported Topology:** Star
- **Memory:** Flash 16 MB, DDR2 256 MB
- **Services**
 - Up to 30 concurrent voice sessions
 - Up to 2 concurrent video sessions
 - Up to 8 VLANs supported
 - Up to 2048 TCP connections
 - Up to 8 concurrent HTTP acceleration workstations
- **Power Supply**
 - Power Supply (AC): Internal, 100-240V
 - Power Supply (DC): Internal, 36-60V

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SkyEdge II VSAT Accent

Platform Highlights

- **IB Channel Rate**

- DVB_RCS mode: 128 to 2560 Ksps
- SCPC mode: 700 Ksps to 10 Msps
300 Ksps to 700 Ksps (with limitations)

- **Maximal Rate**

- Uplink DVB-RCS: 4.4 Mbps uplink (IB TCP throughput)
- Uplink SCPC: At least 10 Mbps (IB TCP throughput)
Up to 20 Mbps (IB UDP throughput)
- Downlink: 25 Mbps (OB TCP throughput)

- **Physical Interfaces**

- RF RX / TX: 75ohm F-type
- DC Inserter In/Out - models with DC inserter only 75ohm F-type
- LAN: 2 x 10/100 auto-cross, auto-negotiation, full-duplex RJ-45
- Serial console: RS-232 RJ-45 connector, Cisco pin-out

- **μSD slot**

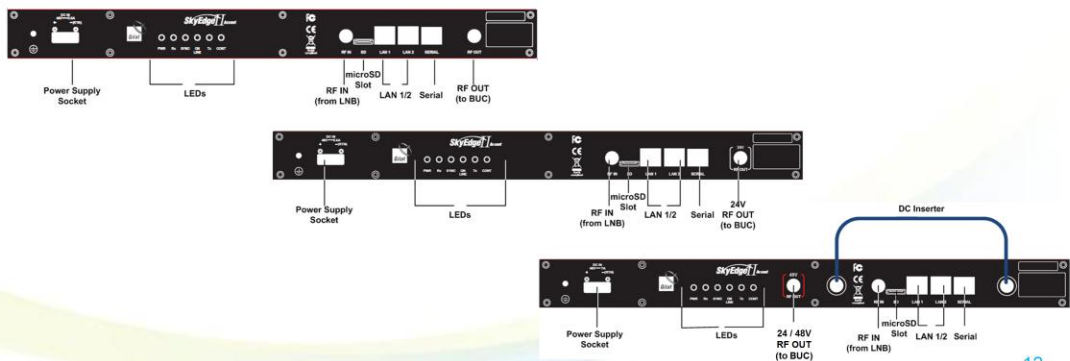
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SkyEdge II VSAT Accent

Platform Highlights

- **6 LED indications**
 - Power, RX (OB signal acquisition), SYNC (network timing acquisition), On-line (connected to network), TX and CONT (SCPC mode)
- **Optional add-ons**
 - No Power / Low Power (24) / High Power (48) to the BUC hardware options



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There are 6 different hardware options:

- SE II ACCENT DC NO POWER TO BUC
- MECH KIT FOR ACCENT DC 24V LOW POWER BUC
- SEII ACCENT DC 48V FOR 24V HIGH P. BUC
- SE II ACCENT DC FOR 48V HIGH P. BUC
- SE II ACCENT AC FOR 24V HIGH P. BUC
- SE II ACCENT AC FOR 48V HIGH P.BUC

There are 2 reasons for needing a DC inserter:

1. The DC current required for powering the BUC is too high for providing via the IDU mainboard.
2. The DC voltage for the BUC is 48V (and not 24V, which is the rating on the RF out interface).



SkyEdge II VSAT Access

Platform Highlights



SkyEdge II Access

- **Modular desktop**
- **CPU:** PowerQUICC II Pro processor core 667 MHz
- **Supported Topology:** Star and Mesh (using expansion drawer)
- **Memory:** Flash 16 MB, DDR2 128 MB
- **Services**
 - Up to 30 concurrent voice sessions
 - Up to 2 concurrent video sessions
 - Up to 8 VLANs supported
 - Up to 2048 TCP connections
 - Up to 8 concurrent accelerated HTTP workstations
- **Power Supply**
 - Power Supply (AC): External, 90 - 240V
 - Power Supply (DC): External Power Box 10 - 60V
 - Software controlled 10MHz reference signal to BUC

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SkyEdge II VSAT Access

Platform Highlights



- **IB Channel Rate**
 - 128 to 2560 Kbps channel rate
- **Maximal Rate**
 - Uplink: 4.4 Mbps uplink (IB TCP throughput)
 - Downlink: 25 Mbps (OB TCP throughput)
- **Physical Interfaces**
 - RF RX / TX: 75ohm F-type
 - LAN: 4 x 10/100 auto-cross, auto-negotiation, full-duplex RJ-45
 - Serial console: RS-232 RJ-45 connector, Cisco pin-out

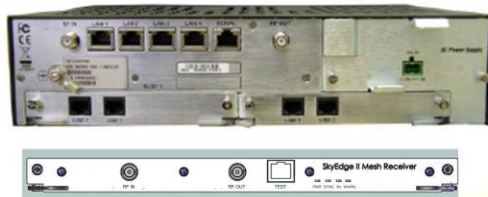
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SkyEdge II VSAT Access

Platform Highlights

- **5 LED indications**
 - Power, RX (OB signal acquisition), SYNC (network timing acquisition), On-line (connected to network) and TX
- **Optional add-ons**
 - 2 x add-on drawers / 1 x wide-drawer
 - Suitable for: Mesh receiver (wide drawer) / dual-port FXS



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SkyEdge II VSAT Pro

Platform Highlights



SkyEdge II Pro

- **1U 19" rack-mounted**
- **CPU:** PowerQUICC II Pro processor core 667 MHz
- **Supported Topology:** Star and Mesh (using expansion drawer)
- **Memory:** Flash 16 MB, DDR2 128 MB
- **Services**
 - Up to 30 concurrent voice sessions
 - Up to 2 concurrent video sessions
 - Up to 8 VLANs supported
 - Up to 2048 TCP connections
 - Up to 8 concurrent HTTP acceleration workstations
- **Power Supply**
 - Power Supply (AC): External, 90 - 240V
 - Power Supply (DC): External Power Box 10 - 60V
 - Software controlled 10MHz reference signal to BUC

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SkyEdge II VSAT Pro

Platform Highlights

- **IB Channel Rate**
 - 128 to 2560 Ksps channel rate
- **Maximal Rate**
 - Uplink: 4.4 Mbps uplink (IB TCP throughput)
 - Downlink: 25 Mbps (OB TCP throughput)
- **Physical Interfaces**
 - RF RX / TX: 75ohm F-type
 - LAN: 4 x 10/100 auto-cross, auto-negotiation, full-duplex RJ-45
 - Serial console: RS-232 RJ-45 connector, Cisco pin-out

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SkyEdge II VSAT Pro

Platform Highlights

- **5 LED indications**
 - Power, RX (OB signal acquisition), SYNC (network timing acquisition), On-line (connected to network) and TX
 - LCD and Keypad
- **Optional add-ons**
 - 4 x add-on drawers / 2 x add-on drawers + 1 x wide-drawer
 - Suitable for: Mesh receiver (wide drawer) / dual-port FXS



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SkyEdge II VSATs

Software Packages

- **VSAT includes two software packages**
 - **MBC**
 - Basic boot software for downloading and activating the operational version
 - **Operational**
 - Main VSAT software
- **The software architecture includes two different Software Packages :**
 1. For SEII IP and SEII Extend
 2. For SEII WebEnhance, SEII Access and SEII Pro
- **VSAT operational software architecture includes 2 main components:**
 - RSP – handles the Access layer (OB and IB)
 - DRPP – handles the IP layer

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Test Your Knowledge

1. How many VSAT types are in SEII?

2. What types of VSATs can have expansion drawers?

3. Which VSAT types support caching?

4. Which VSATs support Mesh? What is needed to support Mesh?

5. What are the two main components in the VSAT software?

Thank You

Boundless Communications