

# MFC316R2A/ILC4802-M

## 16-way Intelligent LNB-Supply/Control system

Made  
in  
Germany

### GENERAL

The MFC316R2A & ILC4802-M feature an intelligent modular-type LNB-supply/control system for up to 16 LNB's. The ILC4802-M is a LNB-powering/control module featuring an active amplifier (adjustable gain), internal Bias-Tee/Directional coupler with 13/15/18V, 22kHz supply and current-monitoring (400mA) with alarm shut-off function. An integrated RF power detector measures the RF output power with 70dB dynamic range at the ILC4802-M module. The MFC316R2A represents the corresponding 3RU/19" chassis for insertion of max. 16 ILC4802-M modules. Each ILC4802-M module can be accessed and configured locally via a 5.7" touchscreen which is located at the front of the MFC316R2A chassis and remotely via its rear-side Ethernet-Interface (WebGUI, SNMP).

The system features 1:1 redundant power-supply (hot-swappable) and is perfectly suited for applications in Teleports, Satellite Earth Stations as well as Broadcast & Broadband facilities. The ILC4802-M modules are available with 50Ohm SMA(f) or 75Ohm F(f) connectors (see order information).



### FEATURES

- Space saving 3RU/19" rack-mount design
- Modular LNB-powering/control for up to 16 LNB's
- Frequency range 950...2.150MHz
- Available with 50Ohm SMA(f) or 75Ohm F(f) connect.
- Active amplifier with adjustable gain (-15...+15dB)
- Switchable LNB-supply 13/15/18V, 22kHz
- Current monitoring 400mA (alarm shut-off function)
- 2 RF-outputs @ each ILC4802-M module
- RF-power monitoring
- Adjustable min. threshold alarm for RF-power
- Excellent RF performance and stability
- Front side control via 5,7" LC-Display touchscreen
- Remote access & configuration via 100Mbit Ethernet-Interface (WebGUI/SNMPv2c)
- Status monitoring via LC-Display & WebGUI
- 1:1 redundant power-supply (hot-swappable)
- Swappable Main-Controller Board (LPC)

### ORDER INFORMATION

- **MFC316R2A:** Main chassis, 3RU/19" (16 Slots rear side)
- **ILC4802-M:** Intelligent LNB-power/control Module, 50Ohm SMA(f)
- **ILC4802-M-75:** Intelligent LNB-power/control Module, 75Ohm F(f)

### TECHNICAL SPECIFICATIONS

#### MFC316R2A (3RU/19" Chassis)

- **Dimensions:** 3RU/19"
- **Power supply:** 85...230V, 50/60Hz  
1:1 redundant (hot-swapp.)
- **Power consumption:** <100W (fully loaded)
- **Module slots:** 16 (rear side)
- **Local control:** 5,7" LC-Display touchscreen
- **Remote control:** 100Mbit Ethernet-Interface (WebGUI, SNMPv2c)

#### ILC4802-M LNB-supply/control module

- **Frequency range:** 950...2150MHz
- **Input/Output connector:** 50Ohm SMA(f) / 75Ohm F(f)
- **LNB-supply:** 13/15/18V, 22kHz
- **LNB current monitor.:** 400mA
- **Adjustable gain:** -15...+15dB
- **RF power monitoring:** 70dB dynamic range
- **In-/Output return loss:** 16dB typ.
- **Frequency response:** ±0,5dB typ. , ±1,0dB max.
- **Control/Configurat.:** see spec. for MFC316R2A
- **Operating temperature:** 0...45°C
- **Storage temperature:** -10°C...70°C
- **Humidity:** 90% non-condensing
- **RoHS:** Compliant

**NEXT PAGE:** Standard 16-way LNB-Supply system

# MFC316R2A/SLC4402-M

## 16-way Standard LNB-Supply system

Made  
in  
Germany

### GENERAL

The MFC316R2A & SLC4402-M represent a standard modular-type LNB-powering system for DC-supply of up to 16 LNB's. The SLC4402-M is a LNB-supply module featuring an internal Bias-Tee with 13/15/18V, 22kHz supply for 1 LNB while the MFC316R2A represents the corresponding 3RU/19" chassis in which up to 16 LNB-supply modules can be inserted.

The system allows to supply and to configure each LNB individually, locally via its front side 5,7" touchscreen LC-Display and remotely via its Ethernet-Interface (WebGUI, SNMP). It features current monitoring (400mA) with alarm shut-off function as well as 1:1 redundant power-supply (hot-swappable).

This system is a flexible and reliable modular LNB-powering solution ideally suited for applications in Satellite-, Broadcast- and Broadband architectures such as Teleports, Satellite Earth-Stations as well as Broadcast & Broadband facilities. The LNB-supply modules SLC4402-M are available with 50Ohm SMA(f) or 75Ohm F(f) connectors (see order information).



### FEATURES

- Space saving 3RU/19" rack-mount design
- Modular LNB-powering solution for up to 16 LNB's
- Frequency range 950...2.150MHz
- Available with 50Ohm SMA(f) or 75Ohm F(f) connect.
- Switchable LNB-power 13/15/18V, 22kHz
- Current monitoring 400mA (alarm shut-off function)
- Excellent RF performance and stability
- Front side control via 5,7" LC-Display touchscreen
- Remote access & configuration via 100Mbit Ethernet-Interface (WEB-GUI/SNMPv2c)
- Status monitoring via LC-Display & WebGUI
- 1:1 redundant power-supply (hot-swappable)
- Swappable Main-Controller Board (LPC)

### ORDER INFORMATION

- **MFC316R2A:** Main chassis, 3RU/19" (16 Slots rear side)
- **SLC4402-M:** Standard LNB-supply Module, 50Ohm SMA(f)
- **SLC4402-M-75:** Standard LNB-supply Module, 75Ohm F(f)

### TECHNICAL SPECIFICATIONS

#### MFC316R2A (3RU/19" Chassis)

- **Dimensions:** 3RU/19"
- **Power supply:** 85...230V, 50/60Hz  
1:1 redundant (hot-swapp.)
- **Power consumption:** <100W (fully loaded)
- **Module slots:** 16 (rear side)
- **Local control:** 5,7" LC-Display touchscreen
- **Remote control:** 100Mbit Ethernet-Interface (WebGUI, SNMPv2c)

#### SLC4402-M LNB-supply module

- **Frequency range:** 950...2150MHz
- **Input/Output connector:** 50Ohm SMA(f) / 75Ohm F(f)
- **LNB-power:** 13/15/18V, 22kHz
- **LNB current monitor.:** 400mA
- **Insertion loss:** 1dB max.
- **In-/Output return loss:** 20dB typ.
- **Frequency response:** ±0,5dB typ. , ±1,0dB max.
- **Control/Configurat.:** see spec. for MFC316R2A
- **Operating temperature:** 0...45°C
- **Storage temperature:** -10°C...70°C
- **Humidity:** 90% non-condensing
- **RoHS:** Compliant