Repeaters

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X-BAND REPEATER

Cross Band VHF & UHF

SPECS _____

Frequencies: 136-174, 400-470MHz or AV

frequencies

Output Power: 50W (VHF), 45W (UHF) Channels: 128 channels, 8 zones

Channel Spacing: PLL Channel Spacing: Display: 12.5kHz 2.5, 3.125kHz LCD with 8 character

alphanumeric





FEATURES ____

Full UHF & VHF analog interoperability
Configured to auto switch from AC to DC
Local controlled operation, can be used as a dual base unit
Programmable actions when a matched tone is received:

- Bell icon indication ON / OFF / Blink
- Answer back calls
- Beep sounds
- Scan Start / Stop
- Auto transmission
- Stun / Kill functions (prevents use of a lost or stolen)

10 scanning lists and Normal / Priority scan Power ON password

- Auto transmission

SIGNALING____

CTCSS/DTCS decode 2/5 Tone MDC1200

WARRANTY

Radios: 2 years Parts: 1 year

CY5000 - CY6000 Repeaters

All In One IDAS™ Digital & Analog Repeater

SPECS

136-174, 400-470, 450-512MHz Frequencies:

Output Power: 50W at 50% duty cycle

25W at 100% duty cycle

Channels:

Channel Spacing: 6.25 (digital) / 12.5kHz

Height: 3 RU

Versions: Repeater only

> Repeater With Duplexer Repeater With Pre-Selector Repeater With Duplexer &

> > Pre-Selector





SPECS & FEATURES

Built-in power supply: 13.8V in or 110V AC in or 220V AC in

Built-in battery backup & charging capable

Built-in heavy duty A/C EMI filtering

3 RU tall - built-in rack handles 19" standard rack or cabinet mounting

Powder-coated steel chassis N style bulkhead connectors built-in grounding stud

Max air cross flow: 80 CFM for excellent ventilation

DB-25 rear connector interface for external equipment

DC terminal strip for easy BBU connection

3 ethernet connections for IP / remote management / trunking Digital Features:

- IDAS Trunking-single or multisite (UC-FR5000 & CFFR5000)
- Receives analog and digital signals on a single channel
- NXDN® Digital Air Interface
- Strongest site search
- Firmware upgrade over IP
- Configuration over IP

SIGNALING____

Digital RAN Code decode

5-tone & DTMF Encode/Decode (analog) **CTCSS**

ENCRYPTION

Simple Inversion: UT-109R 32 Codes Rolling Code: UT-110R 1020 Codes IDAS digital mode, 15-bit encryption key

provides over 32K codes

WARRANTY

1-Year



FR5000 - FR6000 Series

IDAS Digital & Analog Repeater

SPECS

Frequencies: 136-174, 400-470, 450-

512MHz

Output Power: 50W at 50% duty cycle

25W at 100% duty cycle

Channels: 32

Channel Spacing: 6.25 (digital) / 12.5kHz LCD Display: 16-digit dot matrix

Programmable buttons: 5

Mil Spec: 810 C, D, E, F
Scan: Normal & priority
Size: 19-inch rack mount, 2U

height

Weight: 12.3 lb (approx)
Versions: FR repeater

UR repeater module FR/UR kit (FR + UR) Two channel kits



FEATURES

General Features

- CW ID included
- Automatic battery backup
- DB-25 accessory connector
- Built-In community tone panel
- Internal space for duplexer & pre-selector
- Master/Slave backup operation
- Password Kill/Stun security function
- Temperature alert
- Fits 2 RF modules in 2 unit
- PTT priority setting
- Low voltage alert (analog)

Digital Features:

- IDAS Trunking-single or multisite (UC-FR5000 & CFFR5000)
- Receives analog and digital signals on a single channel
- NXDN® Digital Air Interface
- Strongest site search
- Firmware upgrade over IP
- Configuration over IP

SIGNALING____

Digital RAN Code decode 5-tone & DTMF Encode/Decode (analog) CTCSS, DTCS tone

ENCRYPTION

Simple Inversion: UT-109R 32 Codes (analog)
Rolling Code: UT-110R 1020 Codes (analog)
IDAS digital mode, 15-bit encryption key provides over 32K codes

WARRANTY	

2-Year



FR5200H - FR6200H Series

IDAS Digital & Analog 50W 100% Duty Cycle Repeater

SPECS _____

Frequencies: 136-174, 400-470, 450-512MHz

Output Power: 50W at 100% duty cycle

Channels: 32

Channel Spacing: 6.25 (digital) / 12.5kHz LCD Display: 12-digit dot matrix

Programmable buttons: 5

Mil Spec: 810 C, D, E, F, G Scan: Normal & priority

Size: 19-inch rack mount, 2U height

Weight: 22 lb (approx)



FEATURES _____

General Features

- IDAS, analog FM and mixed mode
- CW ID included
- D-SUB 25-pin accessory connector
- Built-in inversion voice scrambler (Analog mode)
- Built-in audio compander (Analog mode)
- PTT priority setting (Local Mic., external PTT or repeater operation)
- · Convenient key assign stickers supplied
- Beat cancel capability
- Low voltage alert (Analog mode)

Digital Features:

- IDAS Trunking-single or multisite (UC-FR5000 & CFFR5000)
- Receives analog and digital signals on a single channel
- NXDN® Digital Air Interface
- Strongest site search
- Firmware upgrade over IP
- Configuration over IP
- ±0.5ppm high frequency stability

SIGNALING

Digital RAN Code decode 5-tone & DTMF Encode/Decode (analog) CTCSS, DTCS tone

ENCRYPTION

IDAS digital mode, 15-bit encryption key provides over 32K codes

WARRANTY

2-Year



IAS 120D - 150D Series

High-Power Digital & Analog Repeater

SPECS

Frequencies: 136-174, 400-470, 450-512MHz Output Power: 100/120/150W at 100% duty

cycle

Channels: 32

Channel Spacing: 6.25 (digital) / 12.5kHz LCD Display: 16-digit dot matrix Display

Programmable buttons: 5

Scan: Normal & priority



FEATURES _____

- SNMP capable
- Two amps can be mounted side by side—eliminating an additional rack space concerns and also marry up nicely with the dual FR5000 configuration
- Full remote control and monitoring of over 16 sensors and alarms via SNMP v2C
- 5 individual internal heat sensors
- 4 GPIO for customized usage
- 70 Amp power supply with smart charging external battery technology – modular design load capacity and expandable to140 amp load capacity
- 15 Amp A/C surge suppression panel with 1750 joules A/C surge suppression – SASD technology
- E2-IP.PA is a 2 RU unit, with an input of 1-3 Watts and an output of 2 120 Watts (UHF) or 2 150 Watts (VHF) output.
- Operates on DC voltage

SIGNALING____

Digital RAN Code decode 5-tone & DTMF Encode/Decode (analog) CTCSS

ENCRYPTION

Simple Inversion: UT-109R 32 Codes (analog) Rolling Code: UT-110R 1020 Codes (analog) IDAS digital mode, 15-bit encryption key provides over 32K codes

WARRANTY _____

2-Year

Third party components noted are subject to change or substitution.



FR9010 - FR9020 Series

110W Full Duty Cycle P25 Digital Repeater

SPECS _____

Frequencies: 146-174, 440-475MHz

Output Power: 110W VHF

100W UHF

Channels: 500 channels
Channel Spacing: 12.5kHz
Display: 5 color LEDs
Mil Spec: 810 G

Size: 18.98x3.46x16.26 in Weight: 11.0 kg; 24.3 lb (approx)



FEATURES _____

P25 conventional, analog FM and mixed mode 500 memory channels capacity P25 conventional base mode:

- Emergency
- Call alert
- Radio check
- Radio inhibit (Stun)
- Radio uninhibit (Revive)
- Status update
- Status request
- SBC log (Call log)
- OTAR (Over-the-Air-Rekeying)
- Individual, group and all calls

D-SUB 25-pin accessory connector

Programmable CTCSS, DTCS and NAC

CW ID transmission

High reliability, rugged construction

±1.5ppm frequency stability (Digital mode)

Low standby current (280mA)

P25 self-test mode and key test mode

Automatic error detection

5 color LEDs

2U low profile for rack mount

Comes With _____

DC power cable connector 2-Year warranty



