

# ARRIS Wireless Solutions

## 850MHz UHF Transmitter



### Application

The UHF transmitter is a solid state, fixed gain power amplifier for broadcast and fixed wireless applications in the UHF band. It can be operated anywhere within the 860MHz to 900MHz band. Advanced design permits the operation with high-level digital signals such as 64QAM, DVB-T or 8-VSB DTV.

This device can be operated on a stand-alone basis, or controlled through SNMP or the front panel display by using a serial link with the UCD4940-1.

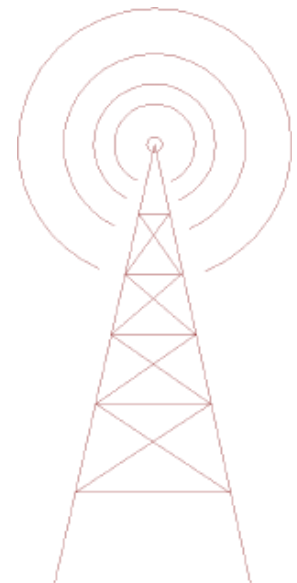
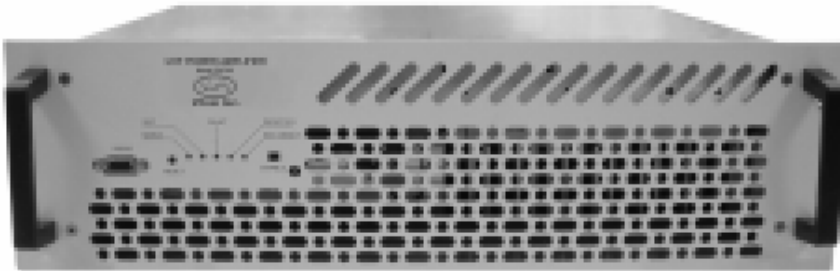
The combination of transmitter and the accessory WMTS interface offers a complete solution for up conversion, down conversion, and a high linearity transmitter in a 4U rack mount configuration\*.

This advanced, cost effective power amplifier offers high performance, flexibility and space efficiency.

### Features

- 80W typical transmit power with 64QAM or DVB-T modulation
- Alarms and automatic protection for RF faults, over temperature, overdrive, output VSWR, and over current
- Up to 140W transmit power for 8-VSB DTV
- Enable/disable via front panel switch or two-pole rear connector
- Monitor and control via RS232/RS485
- International switching power supply (100 to 240 VAC)

- **High output power up to 140 watts**
- **Covers the complete A and B Amps Cellular Frequencies**
- **Optional Remote control and monitoring via RS232/RS485, Terminal or SNMP**
- **Automatic RF Fault Detection**
- **Rugged design**



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### Specifications

<b>RF:</b>	Output Frequency (MHz).....	860MHz to 900MHz
	Output Power .....	80 Wrms (64 QAM, >37 dB MER)
	.....	80 Wrms (DVB-T, with pre-correction)
	.....	140 Wrms 8-VSB DTV
	Gain .....	56 dB ± 2 dB, fixed
	Gain Flatness .....	± 0.3 cB over 6 MHz
	Spurious	
	Inband .....	-55 dBc
	Out of band .....	-55 dBc
	Input/Output Connectors .....	N female, 50 ohms
	Input Return Loss .....	16 dB
	Output Return Loss .....	18 dB
	RF Monitor SMA female .....	50 ohms

### Monitoring and Alarms:

Remote Control Interface .....	
Standalone .....	RS232 via DB9, RS485 via RJ45
With 620274 .....	Front panel LCD push button, RS232/RS485, Terminal(RJ45) or optional SNMP over 10BaseT Ethernet
Status/Alarms .....	Enable, RF fault, Over temperature, Input Overdrive, Over current, Over VSWR
Monitors (with 620274) .....	RF Input Power, RF Output Power, Temperature, Supply Voltage, Automatic Protection
.....	Over temperature, Input Overdrive, Over VSWR, Over current
LED Indicators .....	Power Supply OK, Alarm, Enable

### Physical:

Operating Temperature °F ( ) .....	0 to 45°C
Storage Temperature °F (°C) .....	-30°C to 60°C
Operating Humidity (Min.-Max.) (Non condensing) .....	0% to 100%
Dimensions (H x W x D) in. (cm) .....	5.25 x 17.25 x 18 (43.8 x 45.7 x 13.3)
.....	19"rack, 3 rack unit (RU) high
Weight pounds (kg) .....	33 (15)

### Regulatory:

Safety: .....	UL
EMC .....	FCC

### Ordering Information

#### Transmitter:

Digital UHF Transmitter for 850MHz  
Cellular Operation..... 620273

#### Filters and Duplexers:

Full Band AMPS Receive Filter .. 620272

Full Band AMPS Transmit Filter .. 620271

#### Transmitter to WMTS RF Interfaces:

Transmit Up Converter and Receive  
Down Converter..... 620274

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