

# McLELLAND

## AUDIO VIDEO CONNECTION SOLUTION PRODUCT(CSP)

### UN-SHIELD TWISTED PAIR(UTP) RECEIVER

Models UR2312AB , UR2312AW



- \* Balanced Mic or Line Level XLR Output
- \* Selector switch MIC or LINE
- \* Switch Selects which Pair (A, B or C) Feeds the Output
- \* Signal and Power Pair Pass-through on RJ45
- \* Power can be linked to the removable terminal
- \* Blue LED Indicates Module is Powered
- \* Daisy chain topology
- \* AFC Design (AFC: AutoFeedback Gain Circuitry)

The -UR2312A modules are single-pair audio receiving modules compatible with CSP twisted pair products. These modules are designed to be mounted in wall boxes, cabinets or other enclosures that allow users to connect external equipment. The-UR2312A models mount in CSP wall boxes, or in standard U.S. electrical boxes. The - UR2312AW features a white front-panel laminate with gray lettering that matches CSP style remote controls. The - UR2312AB features a black front-panel laminate.

**APPLICATION:** The -UR2312A modules feature an XLR output jack. A rear-panel switch set during installation determines which of the three pairs is buffered to feed the module output. The audio signal received from the selected pair of the RJ45 INPUT jack feeds the XLR audio output jack. The output level from the XLR jack is set to either MIC or LINE level during installation using a rear-panel switch.

This module receives signal from only one cable pair, so The -UR2312A modules have a second RJ45 jack to connect cables to additional receiver modules. Two other single-pair receivers may be chained to the second RJ45 jack, or a single two-pair receiver may be connected. In addition to completing the reception of signals from all three pairs, additional receivers may be connected to the same twisted pair feed. The bridging input circuits used in all twisted pair receivers allow connection of up to 10 receiver outputs for each cable pair. The possibility of multiple receiver locations adds enormous flexibility in the design of audio routing systems using CSP products. The power pair and all three audio pairs are fed through both rear-panel RJ45 jacks.

The -UR2312A may be powered directly from a 24 Vdc power supply using the rear-panel detachable terminal block. Local power connected to the module is also fed to all connected remote modules. The-UR2312A may be remotely powered through the twisted pair cable from any other module, signal distributor or CSP power inserter connected to the same twisted pair cable. Module power is indicated by a front-panel LED.

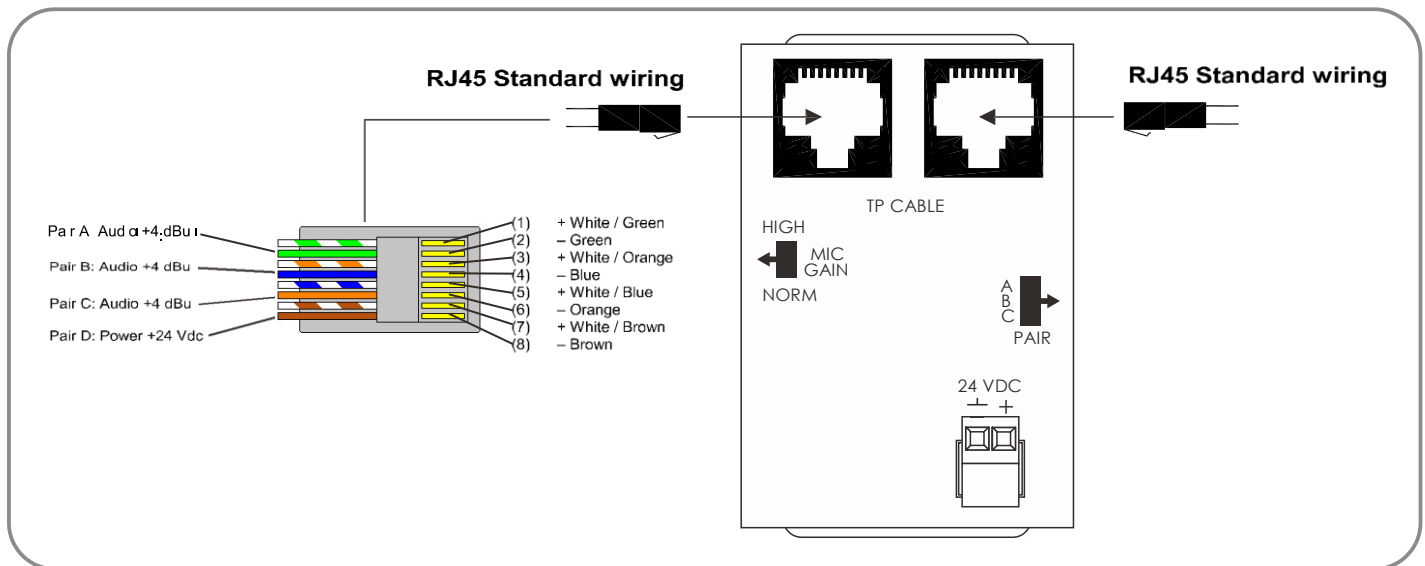
CSP features superior audio performance that rivals or exceeds shielded wiring. Design simplicity, ease of installation, unsurpassed flexibility, automatic fused power, exceptional hum rejection, low noise, and low distortion provide designers and installers the optimum choice in economical twisted pair products.

**STEP 1:** Connect 24 Vdc to the power input terminals if this module is not being powered through the twisted pair cable from another module, or if this module is located an excessive distance from the next powered module on the cable. Note: The front-panel power LED will be illuminated if this module is powered. If this module is powering other modules through the cable and if there is a wiring short, the short must be cleared then power must be turned off to this module for 10 seconds to reset the internal protection circuit.

**STEP 2:** Set the PAIR selector so the module is receiving signal from the desired pair A, B or C of the cable.

**STEP 3:** Connect the twisted pair cable coming from senders or distributors.

**STEP 4:** Connect the twisted pair cable feeding additional receiver(s), if any, and fasten the module in its mounting box.



### TYPICAL PERFORMANCE

Input:	CSP UTP RJ45
Input Connection:	RJ45
Signal Pair Used:	Switch-selectable A, B, or C
Output:	RJ45
Output:	150 $\Omega$ balanced
Output Connection:	XLR
Output Level:	-45 dBu Mic or +4 dBu Line Level, Switch-selectable on rear panel
Frequency Response:	10 Hz to 50 kHz (+/- 0.1 dB)
THD+N:	< 0.005%
Noise below +4 dBu:	< -90 dB
Headroom above +4 dBu:	> 18 dB
CMRR:	> 80 dB (50 Hz to 150 Hz) Power In
Indicator:	Detachable terminal block; RJ45
Power Connections (2):	24 Vdc @ 45 mA plus connected loads
Power Requirement:	155mA
Maximum Load Current:	1.6" (4.06 cm) W; 4.11" (10.45 cm) H; 1.89" (4.8 cm) D
Dimensions:	2.4"
Mounting Box Minimum Depth:	