

# Filtered Preamp with Transmit Bypass

uputronics



This unit is a filtered preamp designed to go between a radio transceiver and an antenna which gives excellent performance gains for reception and bypasses the preamplification circuit when a transmission is detected.

Power is either via bias tee or a USB-C cable (Not Supplied - See related items for a suitable USB Type A to C Cable). Bias-tee voltage input is 5V.

Using a SAW bandpass filter and a low noise amplifier (LNA), it stops out of band intermodulation while providing additional gain for increased sensitivity. The LNA is before the SAW filter. These particular models are tuned for use with frequencies centred on 868MHz (usable 863-876MHz) or 915MHz (893MHz-935MHz). The LNA provides around 15dB of gain at 868/915MHz.

SMA female connectors are fitted for antenna input and radio output, a blue power indicator is provided which switches to red to indicate the unit is bypass mode.