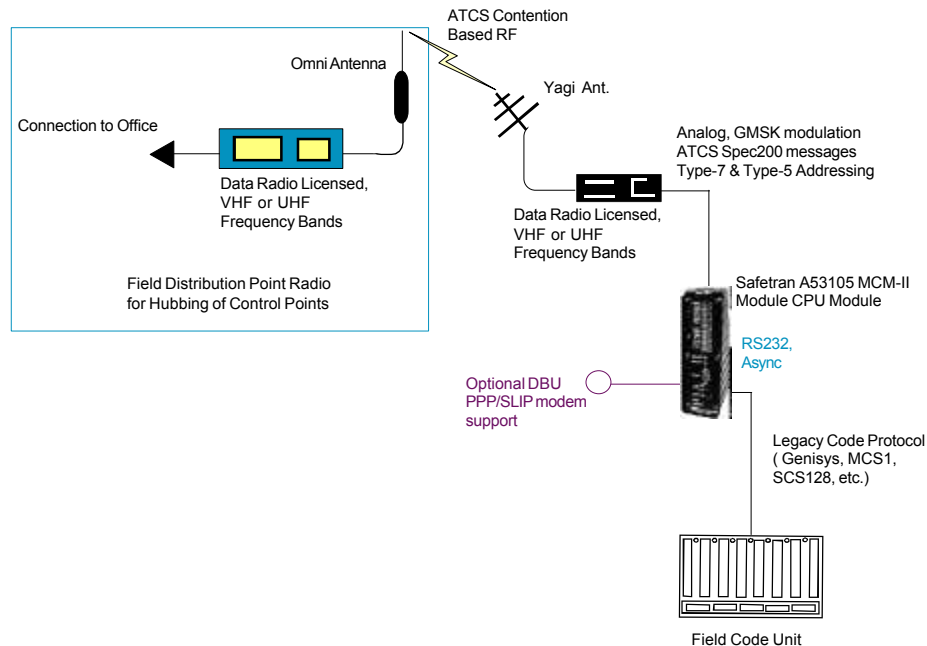


FIGURE VI – FIELD CODE NETWORK INDIVIDUAL CONTROL POINT INTERFACE

Safetran A53105 MCM Module at the Field Code Unit Analog Connection to RF Transceiver

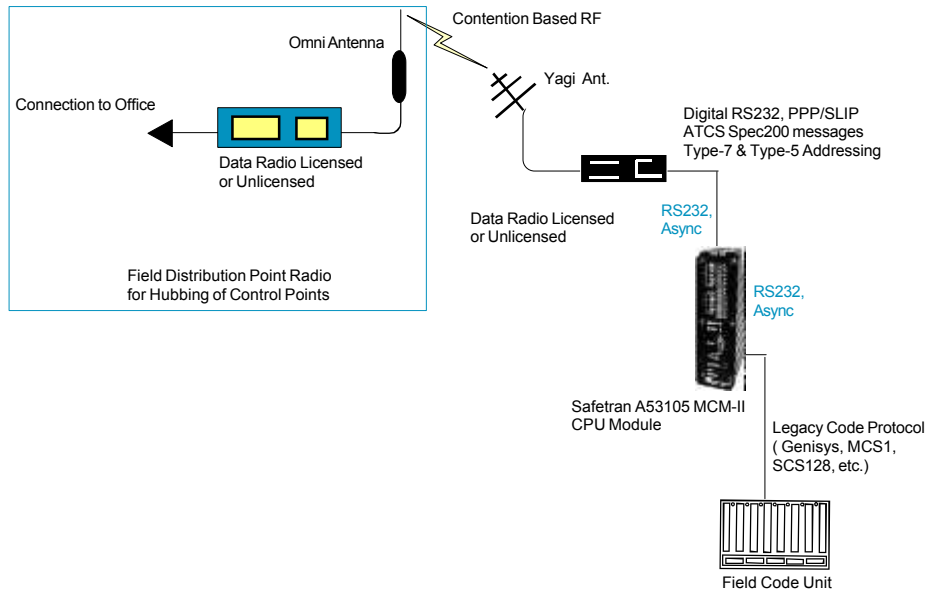


Safetran A53105 MCM II and ATCS GMSK modulation:

- DSP Analog Connection to RF Transceiver such as Kenwood, EF Johnson or Motorola/ATCS GMSK modulation
- Fully supports **Type-5 & Type-7** ATCS addressing
- Can operate in VHF or UHF Licensed Band of Operations
- Safetran A53105 manages the RF ACK & RF RETRY mechanisms
- Analog port connected to transceiver leaves an RS-232 port available for dial back-up services
- RF redundancy via overlapping RF coverage managed by the Office Packet Switch
- RSSI information available for Outbound RF Traffic
- Provides ATCS protocol conversion for all serial code units as well as 504/506 DC code units
- Includes PLC functionality for non-vital code unit service
- Non-vital I/O support for field code unit applications

**FIGURE VII – FIELD CODE NETWORK
INDIVIDUAL CONTROL POINT INTERFACE**

**Safetran A53105 MCM II Module at the Field Code Unit
Digital Connection to RF Transceiver**

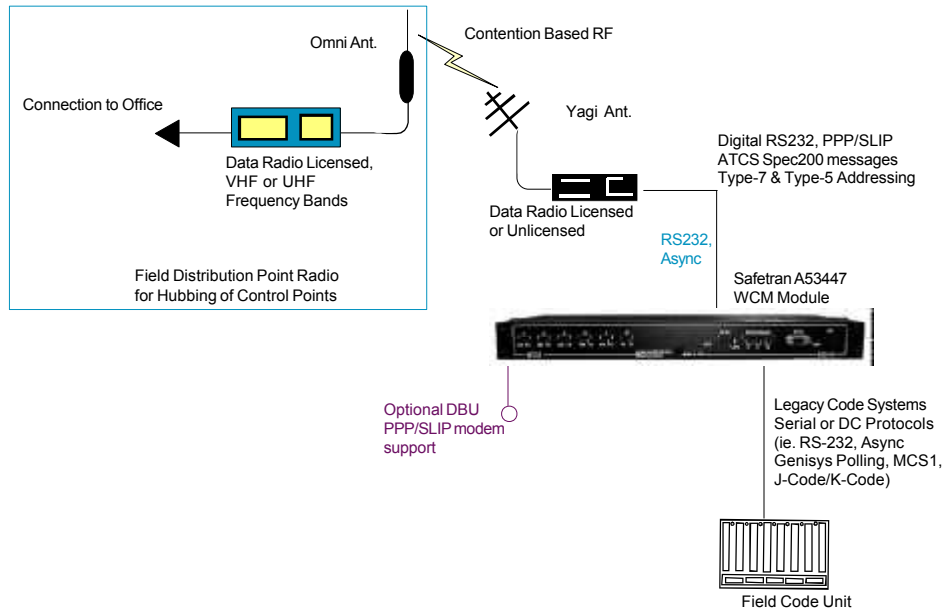


Safetran A53105 MCM II and Other Digital Data Radio:

- RS-232 digital connection to RF Transceiver such as Teledesign, Ritron, Motorola P25, etc.
- Operation in Licensed Frequency band or ISM Unlicensed band
- RS-232 digital connection to unlicensed ISM band transceivers such as Safetran A53308 spread spectrum radios
- May require an external serial to Ethernet converter for operation over wireless Ethernet bridge transceivers
- Selected radio to handle the RF ACK & RF RETRY mechanisms
- Secondary digital port used and not available for Dial Back-up services
- Manages RF redundancy via channel change controls
- Provides ATCS protocol conversion for all serial code units as well as 504/506 DC code units
- Includes PLC functionality for non-vital code unit service
- Non-vital I/O support for field code unit applications

FIGURE VIII – FIELD CODE NETWORK INDIVIDUAL CONTROL POINT INTERFACE

Safetran A53447 WCM Module at the Field Code Unit Licensed Data Radio Connectivity

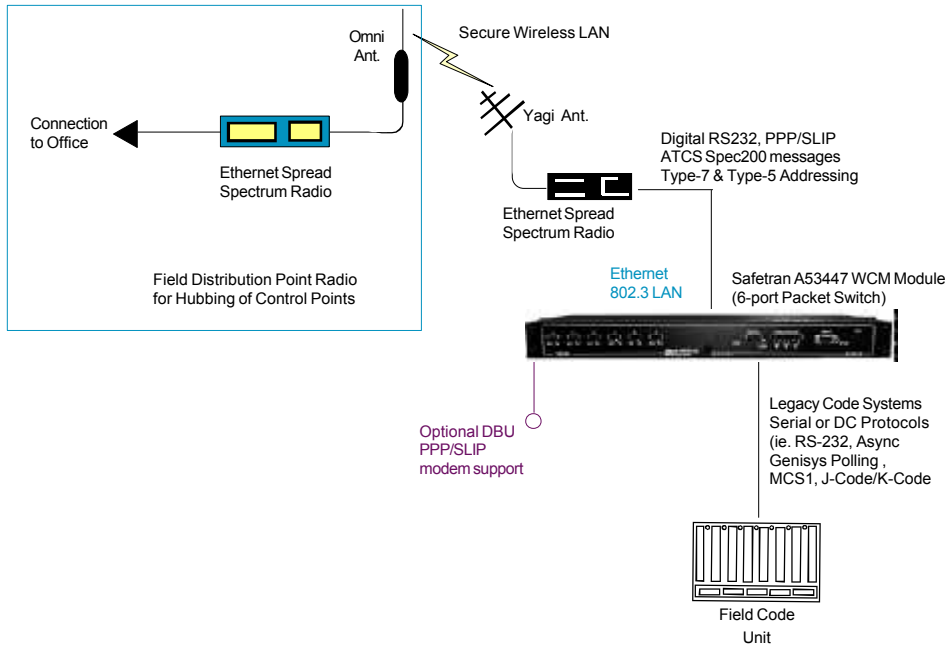


Safetran A53447 WCM and Digital Data Radio:

- Full ATCS support including ATCS **Type-5** & **Type-7** addressing
- RS-232 digital connection to RF Transceiver such as Teledesign, Ritron, Motorola P25, etc.
- Operation in Licensed Frequency band or ISM Unlicensed band
- RS-232 digital connection to unlicensed ISM band transceivers such as Safetran A53308 spread spectrum radio
- Selected radio to handle the RF ACK & RF RETRY mechanisms
- Additional serial ports available for dial back-up services
- Manages RF redundancy via channel change controls
- Provides ATCS protocol conversion for all serial code units as well as all DC Code Units (504/506, J-Code, K-Code, etc.)
- Includes PLC functionality for non-vital code unit service
- Non-vital I/O support for field code unit applications
- Economical packaging of Safetran Packet Switch functionality for field operations

FIGURE IX – FIELD CODE NETWORK INDIVIDUAL CONTROL POINT INTERFACE

Safetran A53447 WCM Module With Ethernet Bridge Unlicensed Wireless Connection



Safetran A53447 WCM and Unlicensed Ethernet bridge:

- Full ATCS support including ATCS **Type-5 & Type-7** addressing
- Ethernet 10base-T connectivity to unlicensed ISM band transceiver such as the Safetran A53325 Ethernet wireless bridge
- Selected radio to handle the RF ACK & RF RETRY mechanisms
- Additional serial ports available for dial back-up services
- Provides ATCS protocol conversion for all serial code units as well as all DC Code Units (504/506, J-Code, K-Code, etc.)
- Includes PLC functionality for non-vital code unit service
- Non-vital I/O support for field code unit applications
- Economical Packaging of Safetran Packet Switch functionality for field operations
- Provides wireless LAN connectivity from the Office Packet Switch to the Field Code Unit via the connection port from ASERVER/WCCMAINT/NMS software
- Excellent visibility to the office specialist for remote maintenance, diagnostics and configuration
- Proprietary RF protocol for security