TC COMMUNICATIONS®
THE LEADER IN FIBER OPTIC CONNECTIVITY

Emerging Technology
in Public Safety Communications

Reliable Public Safety communications is an important asset in today's society. TC Communications understands the importance of interoperable, instant and reliable communication, and offers several products that enable connectivity between wired and wireless communication systems over IP/Ethernet networks.

- **TC3846-6** 600Ω **Analog and Dry Contact-over-IP**
- **TC3848-1/2** VoIP Virtual-PBX

www.tccomm.com/public-safety

TC3846-6 with
SNV-12 Voter/Comparator Radio-over-IP

The TC3846-6, is able to connect the 600Ω Analog and Dry Contact from the radio receivers at each tower. Through the support of the fiber optic ring or Ethernet network, the Jumboswitch at the Central Office can then hand off the signals the SNV-12 Voter/Comparator where it would then pick up the clearest radio signal from the field radios and pass it to the intercom.

The JumboSwitch, with the TC3848, can also provide a virtual PBX to support maintenance phone lines at each tower site.

Solution shown with TC3840R Main + Management card in 1u, 2u racks

TC3846-6

600Ω 4-Wire Analog

Kenwood TK8180K

Emergency Responders with Handheld Radio

Receiver #2

TC3846-6

600Ω 4-Wire Analog

10/100

Fiber

Fiber

Fiber

10/100

4-Wire 600Ω Analog

FXS

TC3846-6 TC3848

Maintenance Handset

Motorola CDM1250

4-Wire 600Ω Analog

FXS

TC3846-6 TC3848

Ratheon SNV-12 Voter/Comparator

Jumbo Switch® APPLICATION

Emerging Technology in Public Safety Communications

TC3848-1/2
Virtual PBX over T1

In the diagram shown below, our JumboSwitch solution, with the TC3844-1 and TC3848-1, enables their existing T1 network to run a Virtual PBX from the City Hall to every fire station within the city. This technology preserved their reliable line of communication, without the additional costs!

Fire Station 1

Fire Station 2

JSW 2U w/ TC3848-1 & TC3844-1

Phones

City Hall

JSW 4U w/ TC3848-2 & TC3844-1

PBX

> *...and we have 0% packet lost so far in June. We've moved out phone lines off the old copper pairs, and onto the TC3846 modems, and are finally in full time production using them in our radio system. Our many thanks to you guys for your wonderful support, have never worked with a more responsive team. Please pass along our appreciation to your team.*

- Colorado Police

JumboSwitch 4U with MAIN Card, MGMT Card and 7 Interface Cards

For Over 20 Years! Designed & Made in USA