

ICSm2™

The most **COST EFFECTIVE** Vehicle Intercom System for light vehicles, shelters, small boats.

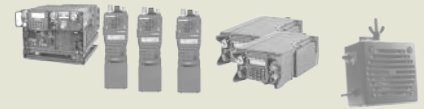
Base System supports up to 12 crew, and 6 radios.

Expanded System for 24 crew and 12 radios.

Small Ultra Low Profile,
Crew Stations

1.25" high 2.75" wide 5.4" Long

Single cable RS-485 connection
between crew stations and Radio Hub
allows separation up to 3000 feet.



Radio Hub

(Located next to radios)



2 User Crew Stations

with
Independent and Shared Controls

Radio PTT1 & 2
(Multinet radio support)

Volume
(each user)

Intercom
VOX/PTT
(each user)

Intercom
PTT
(each user)

Listen
Enables only
Talk radio

Voice Prompt
Switch function
annunciator

Icom
Disables
Intercom



Listen
Radio
Monitor Selection

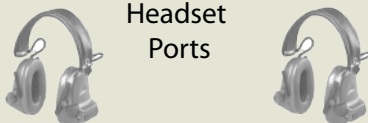
Rotary Talk Switch
1-6 Selects Talk Radio

Talk All
Concurrent transmission
over all "Monitored"
radios

Silence
Prevents radio from
transmitting
(Commander control)

Icom
Handset PTT operates
Intercom

Speaker
Routes headset mic
audio to external
speaker



Supports powered or
unpowered headsets,
dynamic or electret microphones.
Each port has an independent
noise gate, volume control, and intercom VOX/PTT selection.

Key Features and Specifications

- Easy to use
- Intuitive operation
- Individual control for each function
- Voice prompts annunciators ease nighttime use
- Minimal installation
- Low cost architecture
- High reliability
- Low power, 6 Watts typical with 4 Crew Stations
- DC power 9 - 32 Volts
- Single power entry for entire system
- Radio Hub powered Crew Stations
- 28 Volt operation designed to meet Mil-Std-1275a
- Rugged construction aluminum enclosures
- Designed to meet Mil-Std-810
- All external lines EMI filtered
- Designed to meet Mil-Std-461
- Small size low profile 1.25" x 2.75" x 5.4"
- Integral PTTs ORed with headset PTTs
- Supports unpowered and powered headsets
- Supports electret and dynamic microphones
- Completely digital except for analog ports
- DSP audio processed
- Radio interface transformer isolated
- Radio PTT lines optically isolated
- Headset microphone transformer isolated
- Low impedance 8 Ohm earphone driver
- ~100dB isolation between audio paths
- Audio input ports automatically leveled
- WEB server provides remote and local updates and configuration entries
- Custom design features available

Tecknowledgey Defense

www.defense.tecknowledgey.com, Info@tecknowledgey.com

ICSm2

Quick Deploy™

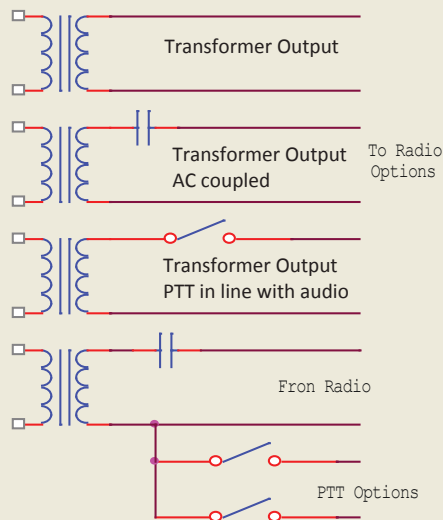
Specifications and Features

- 9 to 32 Volt operation
- Meets MIL-STD-1275D 28 Volt operation
- LS 454 Speaker audio and mounting
- Dual PTT support for SR nets
- Transformer Isolated Radio audio interface
- Optically isolated Radio PTT interface
- Wide choice of Radio interfaces
- RS-485 interface allows

Wearable Crew stations™

to be located great distances from
main speaker unit and from eachother

Radio interfaceo options



Ordering information

All **Standard Models** are supplied in transportable configuration housed in a Pelican watertight case (16.2" x 12.7" x 6.6").

A **WCS™** and 12ft interconnecting cable are supplied for each crew supported.

Standard Models

QD66: Supports 6 crew and 6 radios

QD33: Supports 3 crew and 3 radios

QD22: Supports 2 crew and 2 radios

Other Options:

- Custom length interconnecting cables
- Transportable battery backup
- Customer specified:
- Power connector, headset adapter cable, radio cable, interface configurations

Note:

Case size may vary depending
on options selected

Contact information

Matrix Microsystems Inc.

qd@matrixmicrosystems.com

516 818 8449

www.matrixmicrosystems.com

Quick Deploy™ Speaker - Intercom with

Wearable Crew Stations™



Quick Deploy™ (QD™) supports up to
6 crew members and 6 Radios.
QD™ can be mounted or transportable.



TRANSPORTABLE

or



MOUNTED

Quick Deploy™ Speaker - Intercom with *Wearable Crew Stations*™

Dual PTT
support for
SR nets

Intercom
Mute/Enable

INTERCOM
PTT



Crew can listen to any
combination of Radios/Intercom

Completely digital
(except for Radio and Headset interfaces).
Multiple codecs and digital routing
assures isolation between signal paths.
Multiple digital signal processing (DSP) in Main-Speaker.
DSP in each *WearableCrew Station*™ (*WCS*™).
Algorithms include control of noise, signal
leveling, and acoustical feedback.
RS-485 interface between *WCS*™ and Main Speaker.

Intuitive operation requires minimal or no training

Simple intuitive interface
and Voice Prompts ease learning
and sight free operation

Mutes all Radios
except selected
Talk Radio

Unconnected Radios
can serve as private
Intercom channels

Select Talk Radio

U-283 6 pin
connector
with adaptors
for headset

Transformer isolated
microphone interface.
Dynamic or electret microphone
support. Power provided
for active headsets.
Supports speaker
microphones.



Wearable Crew Station™

Transportable
Speaker - Intercom unit
LS454 Speaker
audio specifications
and mounting

Speaker can be selected
to monitor any combination
of Radios and/or Intercom

Speaker Volume
control

Radio Connectors



Matrix Microsystems Inc.