DATASHEET: QWS2 DISTRIBUTED SYSTEM FOR A COMMUNICATION CHANNEL SERIES

1. OVERVIEW

The QWS2 Distributed System is a versatile and innovative solution designed to enable:

- Communication
- Composite Video Broadcast
- RS422 Communication

The system operates over a Fiber Optic Ethernet Over IP Network, delivering a highly efficient, distributed communication platform.

Figure 1: QWS2 Master/Slave Unit (Illustration Only)

Figure 2: QWS2 PC Unit (Illustration Only)

2. SYSTEM COMPONENTS

The QWS2 Distributed System consists of three main components:

1. QWS2 Master Unit

- **Role:** Serves as the central hub of the system. Each distributed system includes only one Master Unit.
- **Connectivity:** Integrated into the same Ethernet network as the Slave Units via Fiber Optic.
- **Features:**
  - 2 x Dual Channels Ethernet to Composite Video Adapters
  - 2 x Quad Channels RS422 to Ethernet Adapters
  - Dual Fiber Optic Input
  - Dual Fiber Optic Output
  - Optional integration with QWS2 PC Unit

2. QWS2 PC Unit

- **Role:** Acts as the primary communication interface between the Control Unit and the Master Unit.
- **Installation:** Can be installed inside the Master Unit or externally between the Control Unit and Master Unit.
- **Specifications:**
  - Windows PC-Based System
  - 2 Ethernet Channels

3. QWS2 Slave Unit

- **Role:** Enables distributed functionality across the system. At least one Slave Unit is required in every system.
- **Features:**

  - 2 x Dual Channels Composite Video to Ethernet Adapters
  - 2 x Quad Channels RS422 to Ethernet Adapters
  - Dual Fiber Optic Input
  - Dual Fiber Optic Output
- **Control:** Only one Slave Unit can be controlled at a time, selected via the Control Unit.

3. SYSTEM DESIGN

- **One-to-Many Over IP:** The QWS2 System is designed to operate as a one-to-many distributed system.
- **Fiber Optic Communication:** Utilizes 2 x Single Mode Fiber Optic Cables to form a robust communication chain.

4. MECHANICAL DIMENSIONS

- **Master/Slave Units:**
  - 19" Rack Form Factor

5. DOCUMENTATION

The QWS2 system is supplied with comprehensive documentation to ensure ease of use and maintenance:

- Detailed Wiring Diagrams
- Full Bill of Materials (BOM)
- Recommended Spare Parts List

6. ORDERING INFORMATION

Part Number	Name	Description
BTS42980227A	QWS2 PC Unit	Primary communication interface between the Control Unit and the Master Unit. Single Unit Required in each system
BTS40780290A	QWS2 Master Unit	Central hub of the system. Each distributed system includes only one Master Unit
BTS42025137A	QWS2 Slave Unit	Enables distributed functionality across the system. At least one Slave Unit is required in every system

Contact Information

For more information, please contact Bynet Testing Systems:

- **Website**: https://bynet-ts.co.il
- **Email**: info@bynet-ts.co.il
- **Phone**: +972-3-6475979

Note:

Specifications are subject to change without notice. Please consult the latest datasheet or contact our sales team for the most up-to-date information.