



FTM CONSULTING'S:

“INDUSTRIAL ETHERNET STRUCTURED CABLING SYSTEM MARKET STUDY”

Do you need information about the next high-growth market for structured cabling systems? — If you answered “yes,” FTM Consulting is offering its most recent study on the industrial Ethernet structured cabling market.

MAJOR ISSUES ADDRESSED IN THIS REPORT INCLUDE:

- ◆ *Is this a new opportunity for **cable** or for **apparatus** suppliers? — Our research indicates a surprising finding.*
- ◆ *Is this a new market opportunity for fiber cable suppliers? — How much single mode vs. multimode fiber cable will be used in this marketplace? — Will this market embrace 50 micron multimode fiber technology or will it go with 62.5 micron technology?*
- ◆ *How large is the market? — Will it be as large as the LAN cabling marketplace? — How large are the growths for cable or apparatus shipments compared with the LAN high-growth era of the 1990's?*
- ◆ *Will Ethernet take off in the industrial environment? — When? Why? How many nodes will be installed each year through 2006?*
- ◆ *What will the cabling architecture look like?*
- ◆ *Will Ethernet include connections to the I/O devices located in the harsh environment? — What types of cabling products are needed in this harsh industrial environment?*
- ◆ *What are the largest industry segments for this marketplace? — Details down to the three level SICs provide specific customer targets.*
- ◆ *What types of cables will be used? — Cat 5, Cat 5e, Cat 6 or the new “Cat 5i?” — What is the role of fiber cables? — How large are the markets for each of these cables, including Cat 5i cables?*
- ◆ *What types of fiber connectors will be used? — SC, ST, or the small form factor fiber connectors, the MT-RJ? What is the role of small form factor fiber connectors? How large is the market for hardened RJ connectors?...for bulkhead RJ connectors?*
- ◆ *What are the market strategies for selling cabling products in this marketplace? — Distributors, System Integrators, Industrial Equipment Suppliers, Others?*
- ◆ *Who are the current cabling product suppliers? — Industrial specialists or the commercial cabling suppliers?*
- ◆ *What standards will have the most influence in the marketplace? TIA TR 42.9, OPC for Ethernet, others?*

More.....

INDUSTRIAL ETHERNET STRUCTURED CABLING SYSTEM MARKET

TABLE OF CONTENTS:

EXECUTIVE SUMMARY

- Statistical Notes
- Cabling System Architecture
- Cabling Market Forecasts
- Market Opportunities

INDUSTRIAL SYSTEMS BACKGROUND

- Industrial Automation Control Systems Basics
- Industrial Automation Control System Architecture
- Fieldbus Technology
- Industrial Ethernet LAN Equipment
- Automation Control Systems Industry Suppliers
- Ethernet's Role in Automation Control Systems
- Ethernet Usage
- Ethernet Benefit
- Ethernet Issues
- Ethernet New Technology Impact
- Ethernet's Future Role
- Ethernet Implementation Examples
- Dayton Daily News Ethernet

- Network
- Volkswagen Ethernet Network
- Petrobas Oil & Gas Production Ethernet Network

INDUSTRIAL CABLING SYSTEMS

OVERVIEW

- Cabling Architecture
- Cables
- Connectors
- Bulkhead Connectors
- Other Connection Products
- Cabling Product Suppliers
- Marketing Aspects

MARKET VOLUME FORECAST OUTLOOK

- Node Installation Forecasts
- Node Installation Growth
- Copper Cable Shipment Forecasts
- Fiber Cable Shipment Forecasts
- Copper-Fiber Cable Shipment Trends
- Apparatus Cross Connect Shipment Forecasts
- Apparatus Connector Shipment Forecasts
- Comparison to Office LAN Ca-

- bling Market
- Worldwide Market Size & Forecasts

CABLING SYSTEM MARKET FORECASTS

- Total Cabling System Forecasts
- Cable Market Forecasts
- Cross Connect Market Forecasts
- Connector Forecasts
- Total Apparatus Market Forecasts
- Copper-Fiber Cabling Split
- Comparison to LAN Office Market

INDUSTRY ANALYSIS

- Industrial Ethernet Industries
- Industry Rankings
- Manufacturing Industry Subsectors Analysis

INDUSTRIAL ETHERNET STANDARDS

- Standards Organizations
- TIA TR42.9 Standard
- Fieldbus Standards
- OPC Standard

LIST OF FIGURES:

1.1	Industrial Cabling System Architecture	4.9	Connectors, Fiber SC, Fiber ST, Fiber MT-RJ
1.2	Market Forecasts: Cable, Apparatus, Total \$(M)	5.1	Comparison to LAN Office Cabling Systems
2.1	Basic Automation Control System Architecture	5.2	Total Cabling System Market Forecasts \$(M)
2.2	Fieldbus Technology	5.3	Cable-Apparatus Shipment Forecasts \$(M)
2.3	Dayton Daily News Automation System	5.4	Cable-Apparatus Forecasts Trends
3.1	Industrial Cabling System Architecture	5.5	Cable Shipment Forecasts by Type \$(M): Cat 5, Cat 5e, Cat 5i, 62.5 MM, 50 MM, SM
3.2	LAN Horizontal Segment	5.6	UTP Category Cable Shipment Trends
4.1	Industrial Ethernet Node Installation Forecasts	5.7	Cross Connect Apparatus Shipment Forecasts \$(M)
4.2	Node Installation Growth	5.8	Copper Connector Shipment Forecasts \$(M): Outlets, Bulkhead, Hardened RJ's
4.3	Copper Cable Shipment Forecasts (000's Feet): Cat 5, Cat 5e, Cat 5I: Backbone, Horizontal I/O Devices	5.9	Fiber Connector Shipment Forecasts \$(M): SC, ST, MT-RJ
4.4	UTP Category Cable Shipment Trends	5.10	Total Apparatus Shipment Forecasts \$(M)
4.5	Fiber Cable Shipment Forecasts (000's Feet): 50 MM, 62.5MM, SM: Backbone, Horizontal	5.11	Copper-Fiber Cabling Shipment Trends
4.6	Copper-Fiber Cable Shipment Trends	6.1	Comparison to LAN Office Market Forecasts
4.7	Apparatus Cross Connect Shipment Forecasts: Horizontal, Main	6.2	Industrial Ethernet Industry Segments: Mining, Manufacturing, Transportation/Utilities, Amusement Parks
4.8	Apparatus Connector Shipment Forecasts: Outlets, Bulkhead Connectors, Hardened RJ	6.3	Manufacturing Industry Segments Industrial Employees SIC 20 thru SIC 39
		7.1	Industry Rankings by Two Level SIC
			Fieldbus Standards

More.....