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\u0026 Ethernet

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~~communication~~

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Ethernet PAM3

and Signal

Separation

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Understanding

FlexRay

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~~eiSos~~ ~~What is~~

~~DoIP Protocol~~

~~and how DoIP~~

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~~Software enables
Remote Vehicle
Diagnostics? An
introduction to
Single Pair
Ethernet (SPE)
What is
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Marvell 88Q5050

- Secure

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Ethernet Switch

Switches for

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Ethernet
(Intrepid Tech
Days '18)

In-Vehicle
Networking
Technologies
Compared -
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Ethernet, CAN-
FD, LIN,
FlexRay, SerDes,
A2B

Enabling
automotive

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10BASE-T1S~~

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Ethernet BroadR-

Reach: Physical

layer decoding

and analysis

with PicoScope

from Saelig

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Ethernet

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Ethernet is

slightly

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different; a

flavor of
regular

Ethernet, it's
optimized for
vehicular use.

Until now, it's
been used
primarily for
diagnostics, in-
vehicle-
infotainment
(IVI)...

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**Ethernet: The
Future of In-Car
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Ethernet is a switched network compared to the bus systems used in the automotive field. Special approaches for analyzing and

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Automotive networks
are required.

They include
access to the
network as well
as the capturing
of the entire
communication.

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Vector

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Ethernet stems

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from proven IT technology and serves the needs for both capacity and integration. Unlike non-automotive Ethernet, the automotive bus uses unshielded, single twisted-pair cabling designed for

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lower weight and cost. It uses PAM3 modulation to achieve high data rates and reliability.

Automotive Ethernet Testing | Tektronix

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connective

components

within a car

using a wired

network. 9 The

electronics in a

car are getting

more complicated

with more

sensors,

controls, and

interfaces with

higher bandwidth

requirements.

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Why Ethernet was
Not Used in Cars
until Now

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Paper The
automotive
industry is
evolving
rapidly. The

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newest models have features that represent unparalleled innovation - cars that can communicate with each other, the road-side infrastructure, the Internet, plus highly advanced in-car infotainment

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systems.

Ethernet

How to test

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Solutions

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14, 2011 Tom

Denton

Automotive

systems have

tended to use

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Automotive standards such as MOST, but one of the leading automotive networking chip suppliers, SMSC, has produced a high-performance single-chip 10/100 Ethernet controller.

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Automotive
Technology**

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Ethernet is a
key enabler in
perfecting the
completely
connected car of
tomorrow and
creating safer,
more affordable
and higher-
performing

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vehicles.

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Automotive,

Security, IoT

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Ethernet PHY

integrates media

dependent

interface (MDI)

termination

resistors into

the PHY which

simplifies the

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board layout and reduces board cost by reducing the number of external components.

Also, they support an integrated voltage regulator to generate all required voltages so the

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device can run
off a single
3.3V supply.

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88Q222xM Third
Generation
Automotive
1000Base-T1 PHY
The Marvell®
88Q222xM device

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is a single-pair Ethernet physical layer transceiver (PHY) that supports operation over unshielded twisted pair (UTP). The transceiver implements the Ethernet physical layer

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portion of
1000BASE-T1 as
defined by the
IEEE 802.3bp
standard.

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The BroadR-Reach

automotive

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standard uses a

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signaling scheme with higher spectral efficiency than that of 100BASE-TX. This limits the signal bandwidth of Automotive Ethernet to 33.3 MHz, which is about half the bandwidth of 100BASE-TX.

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Ethernet
Wikipedia**

With its high-speed reliable data transfer and cheap cabling features automotive ethernet is the necessity for modern cars. It can provide increased energy

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efficiency and
less complexity
in the wiring.

So if you are
going to be
working with any
Automotive
companies out
there you will
definitely have
to come across
automotive
ethernet.

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The automotive Ethernet is a key focus for in-vehicle networks because of its flexibility and scalability.

Surround-view systems demonstrate the power of network solutions. They

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offer a cost-effective and scalable way to create different system variants with configurations for up to four connected satellite cameras.

In-Vehicle

Networks |

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revolutionizing
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networking from
the experts at
the core of its
development.
Providing an in-
depth account of

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Ethernet, from its background and development, to its future prospects, this book is ideal for industry professionals and academics alike.

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Ethernet PHY

Transceivers Our

expertise in the

physical layer

(PHY)

specification

for the

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market ensures

required quality

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levels for
signal
integrity, noise
immunity, and
reliable
performance.

**Automotive
Ethernet PHY
Transceivers |
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Ethernet is
capable of

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symmetric traffic rates, meaning it transports data at the same speed in both directions on a single-pair automotive cable. This capability makes it the preferred technology for the network

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backbone.

However,
Ethernet can

also operate in
an asymmetrical
mode when
needed.

Ethernet

Advanced

Features for

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Applications ...

The automotive

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Automotive industry has adopted Ethernet for in-vehicle networking (IVN) based on open IEEE standards. Driven by the OPEN Alliance SIG, these standards aim to develop a simpler, but more powerful, automotive elect

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rical/electronic
architecture.

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Thanks to such
effort Canova
Tech is today
offering silicon-
proven and in-
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Physical Layer

IP blocks

designed to

successfully

sustain the

increasing

demand of

quality, safety

and efficiency.

CT25205 -

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T1S Ethernet PHY

IEEE 802.3cg

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To deliver new
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capabilities,
GAC Motor
develops and
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Complete Layer

2-7 test tool

emulating

traffic and

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