

```
type
    TCP_Buffer : array [1..522] of byte;
end_type

var_external
    ONBOARD_OUTPUT_BIT0:    BOOL;    (* Local Output 0 *)
    ONBOARD_OUTPUT_BIT1:    BOOL;    (* Local Output 1 *)
    ONBOARD_OUTPUT_BIT2:    BOOL;    (* Local Output 2 *)
    ONBOARD_OUTPUT_BIT3:    BOOL;    (* Local Output 3 *)
end_var

var
    Buffer:                  TCP_Buffer;
    Init_Ok:                BOOL;
    Send_Data:              BOOL;
    Received_Data:          BOOL;
    Sent:                   BOOL;
    Exchange:               BYTE;
    Length:                 WORD;
    SID:                    BYTE;
    DID:                    BYTE;

    myFB_INIT_SEND_RECEIVE: FB_INIT_SEND_RECEIVE;
    myFB_EXTRACT_USER_DATA: FB_EXTRACT_USER_DATA;
    myFB_PACKAGE_USER_DATA: FB_PACKAGE_USER_DATA;

    I:                      WORD;
    Variable_Length:        WORD;
end_var

(* Prepare SEND ----- *)

if Init_Ok then

    for I := word#1 to Variable_Length by word#1 do
        Buffer[I] := Exchange;
    end_for;

    SEND_ARC_1 (
        SID      := byte#255,
        DID      := byte#1,
        Data_Len := Variable_Length,    (* word#508, *)
        Data_Array := Buffer
    );

    Buffer      := SEND_ARC_1.Send_Buffer;
    Send_Data   := SEND_ARC_1.Data_ok;    (* send data into ARCNET via Gateway *)

    if Received_Data or Variable_Length = word#0 then
        Variable_Length := Variable_Length + word#1;
    end_if;

    if Variable_Length > word#508 then
        Variable_Length := word#1;
    end_if;
end_if;
```

```

end_if;

end_if;

(* END Prepare SEND ----- *)

(* INITIALIZING, SENDING, RECEIVING----- *)

IP_ARC_COM_1(
    Buffer      := Buffer,
    Send_Data   := Send_Data,
    Partner     := '/ACTIVE /PORT=49000 /IP=192.168.0.100'
);

Init_ok       := IP_ARC_COM_1.Init_Ok;
Received_Data := IP_ARC_COM_1.Received_Data;
Sent          := IP_ARC_COM_1.Send_Success;
Buffer        := IP_ARC_COM_1.Buffer;

(* END INITIALIZING, SENDING, RECEIVING ----- *)

(* EVALUATING RECEICED DATA -----*)

if Init_Ok then
    if Received_Data then

        RECEIVE_ARC_1 (
            Buffer := Buffer
        );

        SID      := RECEIVE_ARC_1.SID;
        DID      := RECEIVE_ARC_1.DID;
        Length    := RECEIVE_ARC_1.Data_Len;
        Buffer     := RECEIVE_ARC_1.Data_Array;

        Exchange := Buffer[1];

        ONBOARD_OUTPUT_BIT0 := byte_to_bool( Exchange and byte#1 );
        ONBOARD_OUTPUT_BIT1 := byte_to_bool( Exchange and byte#2 );
        ONBOARD_OUTPUT_BIT3 := byte_to_bool( Exchange and byte#8 );
        ONBOARD_OUTPUT_BIT2 := byte_to_bool( Exchange and byte#4 );

    end_if;
end_if;

(* END EVALUATING RECEICED DATA -----*)

```